

IN THE UNITED STATES DISTRICT COURT  
FOR THE DISTRICT OF RHODE ISLAND

* * * * *		CRIMINAL ACTION
UNITED STATES OF AMERICA	*	11-186-S
	*	
VS.	*	SEPTEMBER 30, 2013
	*	<u>VOLUME I</u>
	*	
JOSEPH CARAMADRE and	*	
RAYMOUR RADHAKRISHNAN	*	PROVIDENCE, RI
* * * * *	*	

HEARD BEFORE THE HONORABLE PATRICIA A. SULLIVAN  
MAGISTRATE JUDGE  
(Evidentiary Hearing)

**APPEARANCES:**

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1 30 SEPTEMBER 2013 -- 9:43 A.M.

2 THE COURT: Good morning, everyone. We are here  
3 this morning in the matter of the United States of  
4 America versus Joseph Caramadre and Raymour  
5 Radhakrishnan. This is criminal matter 11-186-S, and  
6 the purpose of today's proceedings is an evidentiary  
7 hearing so that I will be able to make a Report and  
8 Recommendation to Judge Smith to assist in the  
9 calculation of the restitution amount, that is the  
10 amount of actual victim losses.

11 Would counsel identify yourselves for the  
12 record, please.

13 MR. VILKER: Good morning, your Honor. Lee  
14 Vilker, Assistant United States Attorney. Alongside me  
15 is John McAdams, also Assistant United States Attorney.

16 MR. THOMPSON: Good morning, your Honor. Olin  
17 Thompson for Mr. Radhakrishnan.

18 MR. MURPHY: Good morning, Judge. William J.  
19 Murphy on behalf of Mr. Caramadre.

20 MR. OLEN: Good morning, your Honor. Randy Olen  
21 on behalf of Mr. Caramadre.

22 THE COURT: All right. A couple of minor  
23 housekeeping matters before we get started. I just  
24 wanted to lay out for everyone my game plan for the  
25 day. I thought we'd go till 11:15, take a morning

1 break, short, then go till one o'clock. I'm  
2 optimistically looking at asking to have you back by  
3 1:45 so we can be up and running again by 2:00, maybe  
4 take a break at 3:00 and then go -- my outline of the  
5 day says 4:45, but I will be mindful, Mr. Vilker, as to  
6 whether your witness has a problem and needs to  
7 complete testimony today, so that if we have to go past  
8 5:00 I'm prepared to do that.

9 MR. VILKER: Your Honor, my understanding is  
10 Dr. Kalotay does need to have his testimony complete  
11 today. I believe he needs to catch a train to Boston  
12 by late in the afternoon. So I'm hopeful we'll be long  
13 finished by then but there is some kind of issue with  
14 time.

15 THE COURT: All right. I had recalled that,  
16 but, anyway, let me just ask if there's anything that  
17 any party needs to bring to my attention before I ask  
18 Mr. Vilker to begin.

19 MR. MURPHY: Judge, the defense has conferred  
20 with the Government. I do not believe it's going to  
21 take all day.

22 THE COURT: Good. One thing that I will clarify  
23 before we begin, which I think is important,  
24 Mr. Radhakrishnan's brief brought to my attention and  
25 indeed I just wanted to confirm that what you stated in

1       your papers, Mr. Thompson, is absolutely my impression  
2       and that is that I have not been asked by Judge Smith  
3       to address at all the subject of allocation of  
4       restitution, and we won't have any evidence on that and  
5       I will not be addressing it. Indeed I'll be very clear  
6       in my Report and Recommendation that that remains as an  
7       issue to be brought up before the district judge.

8               MR. THOMPSON: I appreciate that, your Honor.  
9       Thank you.

10              THE COURT: All right. Mr. Vilker, if you'd  
11       like to begin with a brief argument, please proceed;  
12       and otherwise, you can call your first witness.

13              MR. VILKER: Your Honor, as the Government  
14       submitted in our memorandum on the subject, the issue  
15       of the loss of the bonds is somewhat complicated  
16       because it involved a number of economic factors  
17       including the amounts of the bonds, the amount of their  
18       redemption, the maturity date, the time value of money  
19       to each and every company. So it's really an area that  
20       once the Government started examining it made us very  
21       clear that this is way beyond our area of expertise and  
22       we needed to get an expert.

23              We located Dr. Kalotay, who will be the  
24       Government's only witness on this issue, who has an  
25       incredible background, is world-renowned for his

1 expertise on debt management and has written  
2 extensively on corporate bonds as a -- excuse me, on  
3 death-put bonds, has a patent that predated his  
4 retention by the Government in this case concerning how  
5 to value these type of bonds. Dr. Kalotay performed a  
6 company by company evaluation to determine the amount  
7 of losses and is prepared to testify and explain to  
8 your Honor how he reached the conclusions that he did.

9 So with that being said, the Government would  
10 call Dr. Kalotay to the stand.

11 THE COURT: Dr. Kalotay, would you come forward,  
12 please, sir.

13 ANDREW KALOTAY, first having been duly sworn,  
14 testified as follows:

15 THE CLERK: Could you please state and spell  
16 your last name for the record.

17 THE WITNESS: Andrew Kalotay, K-A-L-O-T-A-Y.

18 THE CLERK: Thank you. You may be seated.

19 DIRECT EXAMINATION BY MR. VILKER

20 Q. Good morning, Dr. Kalotay.

21 Can you hear me okay?

22 A. Yes. I hear you fine.

23 Q. Okay. Can you speak into the microphone so we  
24 can --

25 A. Yes.

1 Q. Dr. Kalotay, let me begin by asking you some  
2 questions about your educational background. Do you  
3 have a college education?

4 A. I do.

5 Q. Where did you go to college?

6 A. I got my undergraduate degree in mathematics at  
7 Queens University in Kingston, Ontario; got my master's  
8 at the same institution; and I have a Ph.D. in  
9 mathematics from the University of Toronto.

10 Q. And what year did you obtain your Ph.D. in  
11 mathematics?

12 A. 1968.

13 Q. Let me just ask some general questions about your  
14 professional experience. After getting your Ph.D. in  
15 mathematics, where were you subsequently employed?

16 A. My first job was at Bell Laboratories in New  
17 Jersey. And from Bell Laboratories, I transferred to  
18 the American Telephone and Telegraph Company, which was  
19 the holding company in 1973.

20 Q. And did you, in 1979, did you obtain employment  
21 with a company known as Dillon Read and Company?

22 A. Yes.

23 Q. What kind of company is that?

24 A. Dillon Read was an investment bank.

25 Q. What was your position at Dillon Read?



1 A. I was an analyst at Dillon Read.

2 Q. And what type of investment product were you  
3 focused on there?

4 A. It's not so much investment as borrowing, working  
5 with corporations on a subject referred to as debt  
6 management.

7 Q. By "debt management," does that include corporate  
8 bonds?

9 A. It's corporate bonds. It's corporations who issue  
10 bonds. It's more from the issuers' perspective rather  
11 than from the investment perspective.

12 Q. After you left -- how long did you remain at  
13 Dillon Read?

14 A. I was at Dillon Read from 1979 until 1981.

15 Q. Where did you go in 1981?

16 A. In 1981, I went to Salomon Brothers.

17 Q. What was your position at Salomon Brothers?

18 A. Once again, I was a bond analyst specializing in  
19 corporate debt.

20 Q. And did you advise a number of corporations on the  
21 issuance as they were preparing to issue bonds to raise  
22 funds?

23 A. At Salomon Brothers?

24 Q. Yes.

25 A. Yes, I did.

1 Q. How long did you remain employed at Salomon  
2 Brothers?

3 A. I was there from 1981 until 1990.

4 Q. Where did you go in 1990?

5 A. In 1990, I started up my own little firm, Andrew  
6 Kalotay Associates.

7 Q. Where is your firm based?

8 A. We're in New York City, 61 Broadway.

9 Q. And you're the owner of that?

10 A. I'm the whole owner, yes.

11 Q. Do you have a number of employees?

12 A. We have a number of employees, yes.

13 Q. And what does Andrew Kalotay Associates do?

14 A. We do essentially two things. One is we advise  
15 issuers on debt management, and the second line of  
16 business is licensing-related software.

17 Q. When you say you advise issuers on debt  
18 management, are you talking about bonds?

19 A. It's about bonds and interest rate derivatives.

20 Q. Now, in addition to your -- before I ask that, so  
21 from 1990 through the present you're employed at Andrew  
22 Kalotay Associates?

23 A. Yes.

24 Q. And have you had, in addition to your professional  
25 experience, have you had academic experience?

1       A.    I have taught over the years. I taught as an  
2       adjunct at Wharton and at Columbia University. And I  
3       worked full-time at -- for a couple of years I taught  
4       at Fordham University. And then from 1995 to '97, I  
5       was the director of the Financial Engineering Program,  
6       a graduate level program at Polytechnic University,  
7       which is now part of New York University.

8       Q.    When you say "financial engineering," what does  
9       that mean?

10      A.    It's applying mathematical techniques to solve  
11      financial problems. The focus of my particular program  
12      was in bonds because my personal interest is in bonds.

13      Q.    Is it fair to state, Mr. Kalotay, that you have  
14      had significant experience throughout your career in  
15      dealing with corporate bonds?

16      A.    I believe so.

17      Q.    Now, before I discuss more of your background, can  
18      you just explain to the Court when we say "bond," what  
19      are we referring to?

20      A.    Well, bonds are securities. The typical sort of  
21      fixed coupon bond pays interest at a stated rate over  
22      its life up to its maturity. Many of the corporate  
23      bonds come with options, either issuer's options or  
24      investor options that can -- the right to terminate the  
25      contract prior to its maturity date.

1 Q. What's the maturity date for a bond?

2 A. The maturity date is the date on which the  
3 principal payment, the principal must be repaid by the  
4 borrower, by the issuer to the investor.

5 Q. And have you assisted numerous corporations over  
6 the years in their issuance of bonds?

7 A. Yes. We do two things on this debt management  
8 side on a high level. One is help with the structuring  
9 of any bond, and the second is assist with the decision  
10 how to retire them using options.

11 Q. Now, are you familiar with a particular type of  
12 bond that is known as a survivor option bond?

13 A. Yes, I am.

14 Q. And how did you first become familiar with  
15 survivor option bonds?

16 A. One of our -- our oldest client, actually, is  
17 Tennessee Valley Authority, and they started issuing  
18 these bonds in order to diversify their investor base,  
19 and that's why I can talk about these bonds.

20 Q. Do you recall approximately how long ago that was?

21 A. I believe around 1994 or so.

22 Q. And are survivor option bonds known kind of in the  
23 vernacular as death-put bonds?

24 A. They are known as death-put bonds.

25 Q. And can you describe generally what a survivor

1 option or a death-put bond is?

2 A. It's a regular bond in all regards with the added  
3 feature that if the holder dies, the estate of the  
4 deceased holder can return the bond, put the bonds back  
5 to the issuer and receive the entire face amount, par  
6 amount, principal amount.

7 Q. So for example, if I purchased a death-put bond  
8 and I were to pass away, my estate would be able to  
9 then redeem the bond at the full value?

10 A. Exactly.

11 Q. Now, did these bonds typically have maturity dates  
12 that are many years or even decades in the future?

13 A. Yes. They can be as long as 30 years.

14 Q. And is there any requirement -- well, let me  
15 strike that.

16 If the holder of the bond were to pass away and  
17 the maturity date were not for 30 years into the  
18 future, would the holder of the bond -- would the  
19 estate have to wait those 30 years before redeeming it  
20 at its full value.

21 A. The redemption is normally in the same year as the  
22 time of the death of the holder.

23 Q. And are these type of bonds, are they originally  
24 purchased directly from the corporation, the issuer?

25 A. Well, they are purchased by the underwriter of the

1 bond, yes.

2 Q. So is there a secondary market which these bonds  
3 can be purchased?

4 A. There is a very limited, very narrow secondary  
5 market for these bonds. These bonds by their very  
6 nature are held by retail investors. They tend to be  
7 relatively small in size compared to so-called  
8 institutional bonds. There is a secondary market, but  
9 it is extremely light.

10 Q. It's light in comparison to let's say like the  
11 regular bond market?

12 A. Yes, it is.

13 Q. Okay. But given that this is a relatively small  
14 market, is there the ability of a consumer or an  
15 individual to go to the secondary market and purchase  
16 one or more of these death-put bonds?

17 A. There may be opportunities.

18 Q. And does the price of the actual bond fluctuate on  
19 the secondary market?

20 A. The price does fluctuate due to two factors. One  
21 is the general level of interest rates as depicted by  
22 the U.S. Treasury rates; and the second factor is the  
23 perceived risk of the individual company that's  
24 responsible for these bonds, the issuer.

25 Q. Is there something called the par value of a bond?

1       A.    Yes.

2       Q.    What does that refer to?

3       A.    It's the principal amount.  It's the amount that  
4       has to be repaid to the investor upon the maturity of  
5       the bond.

6       Q.    So for instance, if I bought bonds with a face  
7       value of \$100,000, would \$100,000 be the par value?

8       A.    Yes.

9       Q.    Now, on the secondary market and the price at  
10       which these bonds can be purchased, can they be both  
11       below or above the par value?

12       A.    They can be either below or above, depending on  
13       the factors I've cited.

14       Q.    What factors in the economy would lead to a  
15       survivor option bond being sold on the secondary market  
16       for below par value?

17       A.    In essence, it could happen when the issuer's  
18       borrowing rate exceeds the stated interest rate on the  
19       bond.  And there are two -- as I mentioned before,  
20       there are two factors that determine the issuer's  
21       borrowing rate.  One of them is the general level of  
22       interest rates, and the second one is the perceived  
23       risk of the issuer.

24       Q.    Just kind of explain that.  You said a lot there.

25               If a bond -- you mentioned before these bonds

1 have coupon rates?

2 A. Yes.

3 Q. And the coupon rate, and correct me if I'm wrong,  
4 indicates the amount of interest under the terms of the  
5 bonds that the issuer is going to be paying the bond  
6 holder?

7 A. Yes. It is the stated interest rate.

8 Q. So it could be, for example, five percent that  
9 they take per year?

10 A. It could be five percent. It could be much  
11 higher. It could be much lower.

12 Q. So if you just take this five percent as an  
13 example, if bonds with \$100,000 par value have a coupon  
14 rate of five percent, what would cause those bonds to  
15 be on sale or available for purchase for less than the  
16 \$100,000 par value?

17 A. In essence, if the prevailing interest rate of  
18 this particular maturity, whatever maturity you have in  
19 mind, if that interest rate exceeds five percent, the  
20 price of the bond would be below par, below 100.

21 Q. And by "the prevailing interest rate," are you  
22 referring to the amount of money it would cost the  
23 company to go out in the market itself and borrow more  
24 money?

25 A. The interest rate at which the company at this



1 time could be borrowing.

2 Q. So if the company can only get a loan at that  
3 point or issue new bonds for seven percent, then the  
4 bond on the market that's selling -- has a five percent  
5 coupon rate would decrease in value?

6 A. Yes.

7 Q. Okay. And conversely, if the company were able to  
8 issue new bonds or somehow raise funds for less than  
9 the coupon rate, say this company in my example was  
10 able to issue new bonds at the prevailing rate, they  
11 were able to get three percent, what would happen at  
12 that point to the value of the bond?

13 A. In that case, the price of the bond would exceed  
14 the par amount.

15 Q. Now, are you familiar with something called a call  
16 option?

17 A. Yes, I am.

18 Q. What is a call option?

19 A. The call option bond is arrived -- it's an option  
20 held by the issuer to redeem the bond prior to maturity  
21 at stated prices.

22 Q. When you say "stated prices," what does that mean?

23 A. The stated price is the so-called call prices. In  
24 the case of these retail bonds, there's only one price  
25 normally, which is a par amount. In more complicated

1 situations, the call price can be somewhat over par,  
2 for example, could be 104 percent of par amount  
3 initially and gradually decline over the life of the  
4 bond to par.

5 Q. Now, you mentioned when you first started  
6 testifying about the survivor option bonds, that your  
7 understanding was that the estate of the owner of the  
8 bond were able to redeem it -- would be able to redeem  
9 it at the maturity value upon the death of the owner;  
10 is that correct?

11 A. At the par value.

12 Q. Did you become aware that in addition to the  
13 estate of the owner being able to redeem it upon the  
14 death of the owner that many of these bonds allowed two  
15 individuals to jointly purchase the bond together and  
16 for the other to be able to redeem it upon the death of  
17 the owner?

18 A. I had not been aware of this prior to this case.

19 Q. Did you become aware of that fact in this case?

20 A. Yes.

21 Q. And you're saying before you were retained by the  
22 Government in this case, you were unfamiliar with the  
23 ability on these bonds for a co-owner to redeem the  
24 bond upon the death of the owner?

25 A. I had never heard of it.

1 Q. What was your understanding based on your years of  
2 experience of why these bonds were created by these  
3 corporations?

4 A. It's to facilitate the resolution of the estate  
5 upon the death of the owner, and it's a convenient way  
6 to recover the -- to basically sell the bond and  
7 receive the par value.

8 Q. Now, have you written articles in academic  
9 journals about death-put bonds?

10 A. I did write a couple of articles.

11 Q. In 2009, did you write an article that appeared in  
12 CFA Institute?

13 A. Yes, I did.

14 Q. What article was that?

15 A. It was something like "Estate-Put Bonds Value Lies  
16 in the Eyes of the Beholder," or some catchy title.

17 Q. What was the subject matter of that article?

18 A. The basic idea was -- this article was written for  
19 the CFA publication and -- Certified Financial Analyst,  
20 CFA. And the point was that the value of these  
21 death-put bonds depends on the actuarial assumptions  
22 regarding the owner, and these bonds are much more --  
23 they're much more valuable to investors who have a  
24 shorter life expectancy than for those who have longer  
25 life expectancy.

1 Q. At this point I want to show you what has been  
2 marked as Government Exhibit 7.

3 MR. VILKER: And I would ask the Court for  
4 permission to hand the entire binder over to  
5 Dr. Kalotay. I've handed copies to the defense, and I  
6 believe your Honor has a copy and I've given the court  
7 clerk the originals of the documents we would be moving  
8 into evidence.

9 THE COURT: That sounds good, Mr. Vilker.  
10 Sounds like a convenient way to proceed.

11 MR. VILKER: Thank you.

12 Q. Dr. Kalotay, I'm -- you see on the screen in front  
13 of you an article that you published called "Some Bonds  
14 Are Worth More Dead Than Alive"?

15 A. Yes, I do.

16 MR. VILKER: Your Honor, at this point I could  
17 do this with each exhibit, but if there's no objection  
18 from the defense I would just move into evidence the 14  
19 exhibits that were attached to the Government's  
20 memorandum.

21 THE COURT: Any objections?

22 MR. THOMPSON: No, your Honor.

23 MR. MURPHY: Judge, the only objection we would  
24 have on behalf of Mr. Caramadre is Exhibit 1 is just  
25 literally the Government's argument. So we have no

1 objections to 2 through the remaining.

2 MR. VILKER: I think Exhibit 1 is the statement  
3 of facts.

4 THE COURT: Yes. I think Exhibit 1 is a portion  
5 of the plea agreement.

6 MR. MURPHY: Judge, we have no objection.

7 THE COURT: All right. So Exhibits 1 through 14  
8 may be received full.

9 MR. VILKER: Thank you, your Honor.

10 (Government Exhibits 1-14 admitted in full.)

11 Q. Is that a picture of you on the left side of the  
12 article?

13 A. Yes, it is.

14 Q. Okay. Now, what was the -- first of all, I just  
15 want to point out to you that this article is from  
16 Estate Planning Resources' database, Mr. Caramadre's,  
17 the Defendant here's own computer.

18 What year did you publish this article? 2006  
19 seem right to you?

20 A. Yes. 2006. Exactly.

21 Q. And what was the subject matter of this article?

22 A. This article looks at these estate-put bonds from  
23 the perspective of an issuer and analyzes whether or  
24 not these bonds are economic to issue relative to  
25 so-called institutional bonds. The federal agency I'm

1 referring to here is the Tennessee Valley Authority.

2 Q. Okay. Well, in general, without getting into the  
3 details of this article, the title "Some Bonds Are  
4 Worth More Dead Than Alive," what did you mean by that?

5 A. Well, obviously, it's a bit of fun here but the  
6 basic -- this part of the article was written in  
7 Financial Engineering News and most of finance focuses  
8 on institutions and investments. Much of my focus is  
9 on what I refer to as debt management and on retail  
10 investors. So in a sense, I wanted my colleagues to  
11 become aware of the existence of these bonds which are  
12 very interesting from a purely mathematical  
13 perspective.

14 MR. THOMPSON: Your Honor, I hate to interrupt.  
15 Can I approach for one minute with Mr. Vilker on a  
16 personal issue? It's nothing to do with the case.  
17 Thank you.

18 THE COURT: Sure.

19 MR. THOMPSON: Thank you.

20 (Side bar conference off the record.)

21 THE COURT: We will take a one-minute in place  
22 recess and as soon as Mr. Thompson comes back we will  
23 resume.

24 (Pause.)

25 MR. THOMPSON: Judge, thank you for the recess.

1 THE COURT: Mr. Thompson, anything that you  
2 think would be appropriate here, obviously your  
3 client's interests are important here, but I recognize  
4 that we can be very flexible under the circumstances.

5 MR. THOMPSON: Judge, I appreciate that. I  
6 think having spoken to Mr. Vilker and Mr. Murphy it's  
7 best for me and I think it's best for everyone here we  
8 continue with this today. Frankly, I don't think it's  
9 going to go to the afternoon. If it does, we can  
10 address that when we get to it.

11 THE COURT: Okay.

12 MR. THOMPSON: Thank you very much.

13 THE COURT: All right. Mr. Vilker, you can  
14 proceed.

15 Sorry for the interruption, Dr. Kalotay.

16 Q. So Dr. Kalotay, I was asking you about the premise  
17 of this article that some bonds are worth more dead  
18 than alive. Under what situation would one of these  
19 bonds be worth more to the holder on the bond if he or  
20 she were to pass away rather than to continue living  
21 from a purely economic perspective?

22 A. Essentially, if the prevailing value of the bond,  
23 price of the bond, its trading on the market is below  
24 the stated value, par value.

25 Q. Now, many of these bonds in this particular case

1 were purchased in 2008. That was the year of the  
2 financial meltdown, correct? You just have to answer  
3 yes or no for the record.

4 A. Yes. Yes, it is.

5 Q. What occurred as far as the value of many of these  
6 corporate bonds during the calendar year 2008?

7 A. Historically, the issuers of these bonds were  
8 normally very -- they were Triple A companies, very  
9 credit-worthy companies. That's why these bonds  
10 appealed to retail investors. In 2008, some of these  
11 companies fell on hard times and the credit  
12 deteriorated; and as a result, the cost of borrowing  
13 went much higher and at the same time as a result the  
14 values of these bonds fell substantially below par.

15 Q. Would that mean that an individual would have been  
16 able to purchase some of these bonds for well under the  
17 price of the maturity value?

18 A. To the extent that you could find these bonds.  
19 They are not very liquid. If they did trade, I would  
20 expect that the price would have been considerably  
21 below par.

22 Q. Now I want to show you Exhibit 9. It should  
23 appear on the screen in front of you.

24 What is Exhibit 9, Dr. Kalotay?

25 A. Yes. I see it. It's a patent that I received, we



1 received for the technology to value bonds with an  
2 estate-put.

3 Q. And it says here that it's filed on March 22nd,  
4 2007. Is that the time that you got this patent?

5 A. I'm not sure when we got the patent. I think  
6 that's when we filed. It took about -- it took several  
7 years to obtain the patent.

8 Q. Had you obtained this patent -- actually, I see it  
9 says date of patent September 28, 2010?

10 A. Yes.

11 Q. Okay. And was that prior to your retention by the  
12 Government in this case as an expert witness?

13 A. Yes. It is prior to it.

14 Q. And I just want to show you this page. And  
15 without going into the details that are in all these  
16 boxes, what generally -- what formula are you  
17 describing in this patent?

18 A. Well, the general idea is to describe how to value  
19 bonds with an estate-put. One part is what is shown  
20 here, which has to do with decomposing the put option  
21 into annual increments. Typically, in any given year,  
22 only a certain percentage of the original face amount  
23 can be put back, normally one percent, possibly two  
24 percent.

25 There are other features that complicate the

1 analysis. One is, as we discussed earlier, most of  
2 these bonds are also callable so the issuer also has an  
3 option; and another complicating feature, which is  
4 described in my article that you have just referred to,  
5 is that the underwriting fee on these bonds is usually  
6 much higher than it would be for standard institutional  
7 bonds.

8 So essentially, you want to have an apples to  
9 apples comparison of institutional deals to these  
10 estate-put bond deals, and this patent basically  
11 developed the technology for that comparison.

12 Q. Is this generally the technology that you used in  
13 this particular case to determine what losses, if any,  
14 the bond issuer suffered?

15 A. Yes. This is the technology that we used.

16 Q. This wasn't a formula that you came up with for  
17 the purposes of this case?

18 A. No, it was not. We had a calculator in place. We  
19 had been using this for our clients routinely for  
20 several years prior to acquiring the patent.

21 Q. Now, Dr. Kalotay, have you been inducted into an  
22 institution called the Fixed Income Analysts Society  
23 Hall of Fame?

24 A. Yes, I was, in 1997.

25 Q. Is there an actual physical location for this Hall

1 of Fame?

2 A. No, there's no physical location.

3 Q. You were inducted in 1997?

4 A. 1997. I was one of the first inductees. And it  
5 was for my work in debt management.

6 MR. VILKER: At this time, your Honor, the  
7 Government would move to qualify Dr. Kalotay under  
8 Federal Rule of Evidence 702 as an expert in the field  
9 of valuation of bonds with estate-put features.

10 MR. THOMPSON: No objection.

11 THE COURT: Mr. Murphy?

12 MR. MURPHY: No objection, your Honor.

13 THE COURT: All right. I find that Dr. Kalotay  
14 seems eminently qualified to testify under Rule 702.

15 MR. VILKER: Thank you, your Honor.

16 Q. Now, Dr. Kalotay, in 2012, were you retained by  
17 the Government as an expert witness in this case?

18 A. Yes, I was.

19 Q. And what was your understanding of what the  
20 Government was asking you to do?

21 A. My understanding was that I was asked to determine  
22 how much more it costs the certain issuers to fund  
23 their debt as a result of puts resulting from  
24 estate-puts, early retirement of bonds from  
25 estate-puts.

1 Q. So correct me if I'm wrong, but you were being  
2 asked to determine if any of these companies suffered  
3 losses as a result of being required to redeem these  
4 bonds at an earlier date?

5 A. That's correct.

6 Q. Now, did you have any role in the underlying  
7 investigation in this case?

8 A. I did not.

9 Q. Did you interview any witnesses who were involved  
10 in setting up these accounts or any of the account  
11 owners?

12 A. No, I did not.

13 Q. So you were not asked in any way to assume that  
14 there was fraud or other illegal conduct involved?

15 A. No. That never was asked of me.

16 Q. Is it correct that you were being asked to perform  
17 a mathematical computation of the amount of losses, if  
18 any, for all these companies in which these death-put  
19 bonds were redeemed early?

20 A. Yes. It was strictly to determine how much more  
21 it would cost these corporations to carry their debt as  
22 a result of the puts from these bonds.

23 Q. As a general matter with these bonds, if we're  
24 talking about bonds with \$100,000 face value and say  
25 the maturity date is 20 years away, the company has to

1 pay that \$100,000 in 20 years, correct?

2 A. That's correct.

3 Q. And in the meantime, they have to pay a coupon  
4 rate, three percent, five percent, whatever is set in  
5 the prospectus of the bonds?

6 A. That is correct.

7 Q. If these bonds are redeemed early under the  
8 death-put provisions, the company, instead of paying  
9 the \$100,000 back in 20 years in the example I gave,  
10 would have to pay it back in the near future?

11 A. That is correct.

12 Q. So is that the essential dynamic that you were  
13 attempting to calculate is how much loss, if any, would  
14 these companies have suffered as a result of having to  
15 redeem these bonds at a much earlier date?

16 A. Well, that is it, but it's not quite complete  
17 because you also have to take into account that in  
18 order to repay that bond earlier they would typically  
19 have to raise additional funds and the cost of those  
20 funds have to be taken into account in computing the  
21 cost.

22 Q. We're going to get more into this as I show you  
23 your report, but, in essence, you were determining  
24 among other factors how much it would cost the company  
25 to raise the amount of funds to pay back the bonds that

1 were being redeemed early?

2 A. Essentially, yes.

3 Q. Okay. Now, did you review many statements of  
4 brokerage accounts in this case in which these  
5 survivorship bonds were being purchased?

6 A. Yes, we did.

7 Q. I want to show you Exhibit 2. Exhibit 2 is an  
8 Ameritrade statement of a brokerage account in the  
9 names of Joseph Caramadre and Donald Bortle.

10 And you never interviewed either of those  
11 individuals, correct?

12 A. No, I have not.

13 Q. This is from the period of April 1st, 2008,  
14 through May 30th of 2008. I want to just turn to page  
15 six of nine as an example, and the top line says:  
16 Transaction date 5/12/08. It says: By securities  
17 purchased, General Motors Acceptance Corp. And there's  
18 something called a CUSIP?

19 A. Yes.

20 Q. What's a CUSIP?

21 A. It's a name for every security has a -- call it  
22 it's like a Social Security number. It's a unique  
23 number owned by this company, CUSIP, which is part of  
24 Standard & Poor's.

25 Q. So it identifies the specific fund?

1 A. Identifies the security.

2 Q. Okay. And it says quantity 200, price 63.49, and  
3 then it says amount and it's in parentheses \$126,980.

4 What do those numbers tell you from this  
5 Ameritrade statement?

6 A. Well, looking at the price of 63.49, it tells me  
7 that these bonds were trading substantially below the  
8 par value, which is 100.

9 Q. Two hundred, does that indicate that there were  
10 \$200,000 worth of bonds that were --

11 A. It shows that 200 bonds each, \$1,000 face amount.

12 Q. Okay. And what's the number 126,980 refer to?

13 A. That was the cost of purchase, 200 times 63.49  
14 times 1,000.

15 Q. So this would indicate that the account owners  
16 purchased General Motors bonds on that day, May 12th;  
17 the bonds had a face value of \$200,000, and they  
18 purchased it for \$126,980.

19 A. Yes. This was GMAC, General Motors Acceptance  
20 Corporation.

21 Q. Now I want to show you Exhibit 3. Exhibit 3 is a  
22 letter from Joseph Caramadre on July 1st of 2008, less  
23 than two months later. And it says: Please accept my  
24 request for redemption of my General Motors bonds under  
25 the provision of the survivors options available for

1 each note. Per the list below, I am requesting  
2 redemption of the following issues. It has a CUSIP  
3 number and the amount is \$200,000.

4 Now, that CUSIP number would refer to the  
5 specific bonds I showed you earlier?

6 A. I assume so. The 370, yes, it does.

7 Q. Just to make sure we're talking about the same  
8 bonds, it's 3704A and then -- those are the same  
9 numbers? Do you see them on page six of Exhibit 3 and  
10 Exhibit 2 with the Exhibit 3?

11 A. Yes.

12 Q. So he is seeking redemption to get the full  
13 \$200,000 maturity value of this bond that he had  
14 purchased less than two months before?

15 A. Yes.

16 Q. Now I want to show you Exhibit 4. Exhibit 4,  
17 Dr. Kalotay, is an Ameritrade statement from this same  
18 account in the period of October 1st, 2008, to October  
19 31st, 2008. And I want to go to page four of eight.

20 On the line where it says October 15th, 2008, it  
21 says: Securities sold, General Motors Acceptance Corp.  
22 And it says 200,000.

23 Does that indicate that the \$200,000 was  
24 credited to Mr. Caramadre's account for those General  
25 Motors bonds?



1 A. Yes, it does.

2 Q. Was what I just showed you a similar pattern that  
3 happened time and time again in these various accounts?

4 A. Well, we analyzed the statements. Most of the  
5 time similar thing did happened.

6 Q. Were there other instances in which the bonds  
7 instead of being redeemed were resold on the market or  
8 not sold in the end?

9 A. I'm sorry. Could you repeat.

10 Q. You're saying there were other types of  
11 transactions that happened with these bonds other than  
12 pure redemptions?

13 A. Yes, I believe some of the bonds were sold prior  
14 to the death of the holder or prior to maturity.

15 Q. But for the ones that were redeemed with the death  
16 of the co-holder, this would be a fairly typical  
17 pattern that you saw in these statements?

18 A. Yes.

19 Q. Now, in determining the gain from these  
20 transactions, how would you go about doing that?

21 A. The gain to the investor?

22 Q. Yes.

23 A. Well, a simple way of doing it is look at the  
24 purchase price and look at the redemption value, take  
25 the difference with the caveat that you may want to

1 account for the time value of the money between the  
2 purchase date and the sale date. In most of these  
3 cases, these dates were very close to each other so the  
4 time value of money was not a significant factor.

5 Q. So in determining the gain from these  
6 transactions, other than the caveat you made with the  
7 time value of money, it's essentially what the  
8 Defendant paid for them, the difference between that  
9 and what he ultimately received when the bonds were  
10 redeemed?

11 A. Yes.

12 Q. So now I want to show you Exhibit 5. Is this a  
13 document that was prepared by the IRS agent in this  
14 case? You didn't prepare this document, did you?

15 A. I'm not sure I've seen this particular document.

16 Q. Your work was focused on the losses, not the  
17 gains, correct?

18 A. Yes. Our analysis involved the bonds from the  
19 perspective of the issuers, not from the investor.

20 Q. Okay. And this indicates here that the total gain  
21 was \$11,959,824.08?

22 MR. THOMPSON: Judge, I'm going to object. This  
23 is not his exhibit. He didn't prepare it.

24 THE COURT: Well, the exhibit is in evidence so  
25 I think he's just asking what the number is on the

1 page, not to characterize the number --

2 MR. VILKER: Right.

3 THE COURT: -- since he didn't prepare the  
4 exhibit.

5 Q. My only question on this would be why wouldn't  
6 that number just be the same number as the loss?

7 A. Well, I have already alluded to one of the factors  
8 that I believe this number is based strictly on the  
9 purchase price and the sale price. I haven't described  
10 yet how we computed the loss so I --

11 Q. It's a different calculation?

12 A. It's a different method. If I may just make one  
13 small point, this analysis does not take into account  
14 the change in the value of the bond between the  
15 purchase date and the redemption date due to interest  
16 rate changes between those two dates.

17 Q. So you're saying the gain would just be determined  
18 by looking at the purchase price and the redemption  
19 price?

20 A. I believe this is what is done here. That's my  
21 understanding.

22 Q. So let me move on to what your job was in this  
23 case, which was to determine how much, if any, all  
24 these companies lost as a result of these early  
25 redemptions of the bonds.

1           And you indicated already that these companies  
2       were required to pay back the full maturity value at  
3       some point in the future?

4       A.    That is correct.

5       Q.    And as we saw here, the example I showed you with  
6       GMAC, they ended up redeeming these \$100,000 in bonds  
7       within a few months after their purchase instead of  
8       some point off in the future, right?

9       A.    Yes. That's correct.

10      Q.    So how would you generally describe the  
11      methodology that you used to determine how much, if  
12      anything, these companies lost as a result of these  
13      bonds being redeemed years or even decades early?

14      A.    Just on a high level, it is basically comparing  
15      two liabilities, two sets of payments. One, what if  
16      the bond remains outstanding. It may not be until  
17      maturity. I do want to quantify it for two reasons.  
18      One, these bonds are callable so if rates happen to go  
19      much lower, which is not very likely, they could be  
20      called but that's one factor that should be taken into  
21      account; but in addition, these bonds have an  
22      estate-put feature and even if they are not put today,  
23      they could be put next year or the year after or the  
24      year after so that would increase their value and that  
25      also has to be taken into account. And these are

1 subtle points but they should be taken into account in  
2 assessing the value of the liability, the value of the  
3 debt as it stands right now. Then I have to compare  
4 that to what it costs to replace this debt at the  
5 current rates.

6 **Q.** Okay. So when you say the amount that it costs to  
7 replace the debts, in this case, the example I gave  
8 you, GMAC had \$100,000 debt that the Defendant here is  
9 calling, saying pay me back that money now. How do you  
10 figure out how much it would cost in this particular  
11 case GMAC to replace that debt?

12 **A.** So the actual cost as you indicated is actually  
13 the par value. That's what it is. But from an  
14 analytical perspective, the way you handle this is to  
15 look at the outstanding debt that we understand is its  
16 call option, is its put option and essentially value  
17 that debt based on the issuers pure end refunding  
18 rates. That's the underlying analytical method of  
19 doing it.

20 **Q.** So if this bond, let's put on just an example, has  
21 a five percent rate of return, five percent coupon rate  
22 and it costs General Motors eight percent at this  
23 period of time because of whatever fact, they're having  
24 some issues and the interest rates are moving up and  
25 for whatever reason it costs them more to borrow money

1       than the rate of return on the bond. How would that  
2       difference between that eight percent and five percent  
3       play out in determining how much money, if any, that  
4       GMAC lost on this bond?

5       A. In essence, the term is discount the remaining  
6       flows on the outstanding bond, on the outstanding five  
7       percent bond at an eight percent rate. There are some  
8       complications that I mentioned involving the  
9       optionality but that basically captures what happens.  
10      All you come up is that hundred dollars really doesn't  
11      matter in terms of calculating the amount of loss.

12      Q. Am I correct in understanding your opinion is that  
13      GMAC in this particular case would need to pay back  
14      immediately \$100,000 on which they had agreed to be  
15      paying five percent interest but it may cost them more  
16      in interest to raise \$100,000 to pay back in the first  
17      place?

18      A. That is correct.

19      Q. How would you explain this in kind of layman's  
20      terms through if you would use an example of a mortgage  
21      that we all have?

22      A. So suppose you have a 30-year mortgage and it has  
23      25 years left to maturity. If the mortgage has, for  
24      the sake of argument, a rate of five percent and  
25      suddenly you are required to repay the entire principal

1 amount, if you don't have the money you'd have to go  
2 out and have a new mortgage and say the new rate is  
3 eight percent. So essentially, your monthly payment  
4 after the refinancing will be higher than they were  
5 before. So you look at the difference between those  
6 two amounts. It depends on the principal amount, the  
7 initial principal amount of the mortgage, and you look  
8 at how much more it costs over the remaining 25 years  
9 and you express that amount. You don't just add up.  
10 You have to discount and express it on a so-called  
11 present value basis. That's kind of it, but again  
12 even in the case of a mortgage, you may want to  
13 consider that the typical mortgage can be refinanced  
14 at -- can be repeated any time.

15 So even this five percent mortgage, which is  
16 currently in the example, it's at below market rates.  
17 Should rates ever go to four percent, you may want to  
18 refinance it. And that somehow has to be captured in  
19 the analysis.

20 **Q.** When you're determining the call option -- there's  
21 other aspects in this calculation that you used?

22 **A.** Yes. It's not just repaying it now versus waiting  
23 until maturity. There are things that could happen in  
24 the interim.

25 **Q.** But would you agree with me that, although there

1 are a number of variables, a very important variable in  
2 your analysis would be how much each corporation would  
3 be required to pay at -- would prevailing rate be the  
4 right term?

5 A. Yes. Prevailing borrowing rate.

6 Q. And that would vary from company to company?

7 A. Yes, it would.

8 Q. There's a long list of companies here. How did  
9 you go back and determine what the prevailing rate was  
10 for each of these companies back in 2007 and 2008?

11 A. We did not determine those rates internally. We  
12 used some information that we obtained from Standard &  
13 Poor's. They compute these rates on a regular interval  
14 by different credit classes. We looked at only two  
15 different credits. We did not try to go for every  
16 possible credit rating and investment grade and money  
17 investment grade. And we used that information in  
18 terms of spreads, how much more would an investment  
19 grade corporation have to pay for ten-year debt above  
20 what the U.S. Treasury pays. That's the type of  
21 information, and we obtain that information from  
22 Standard & Poor's and use that information to estimate  
23 the borrowing costs for the relevant corporations.

24 Q. Did you prepare a report summarizing your findings  
25 in this case?



1 A. Yes, we did.

2 Q. I want to show you Exhibit 10. Is this a copy of  
3 your report that you prepared?

4 A. Yes. Yes, it is.

5 Q. And it's dated July 17th of 2012?

6 A. Yes, it is.

7 Q. Now, page two, there's a paragraph that talks  
8 about determining the loss to the issuers. It should  
9 be on the screen in front of you.

10 A. Yes.

11 Q. And it talks about the issuers prevailing  
12 borrowing costs and the call options. And is that  
13 essentially what you just testified about here as the  
14 formula you were using?

15 A. Yes. Funding curve.

16 Q. And the funding curve, that referred to how much  
17 it cost each issuer to borrow at a certain time?

18 A. On a given date how much it costs by different  
19 maturities, because the borrowing cost for five years  
20 would typically be less than the cost of borrowing for  
21 ten years and that, in turn, would be lower than  
22 borrowing for 20 or 30 years. So we refer to a yield  
23 curve or a funding curve.

24 Q. And if I turn to the final page of this report,  
25 you have a little diagram summarizing the essential

1 factors that you used?

2 A. Yes.

3 Q. Is that basically what you are testifying about  
4 here?

5 A. Yes. And the key point is the fair value of the  
6 bond, which is indicated in the third box.

7 Q. When it says "replacement cost to issuer," is that  
8 talking about how much more it would cost then to get  
9 the money to pay off the original bond?

10 A. Yes. The fair value is what the bond -- what the  
11 cost of the liability is today if you leave it  
12 outstanding, if you do not have to repay it today.

13 Q. And then it indicates in the final paragraph that  
14 based on the calculation that you performed for the  
15 survivor-put options that were redeemed by  
16 Mr. Caramadre and others in this case, the total loss  
17 was \$12.48 million?

18 A. Yes. It's not on this page.

19 Q. I want to show you Exhibit 11. Is this a chart  
20 that you prepared breaking down the losses by company?

21 A. Yes, it is.

22 Q. And is it in order of severity?

23 A. Yes.

24 Q. For instance, the biggest loss was General Motors,  
25 and they lost \$4.76 million?

1 A. Yes. GMAC.

2 Q. And it adds up to \$12,482,000?

3 A. Yes.

4 Q. You mentioned before Tennessee Valley Authority,  
5 and it indicates here that they lost \$4,568?

6 A. Yes.

7 Q. You testified today that they were actually a  
8 client of yours?

9 A. They continue to be a client. They are our oldest  
10 client.

11 Q. Did you have any knowledge of their role in this  
12 case before any of the data were provided to you?

13 A. None whatsoever. And in fact, I brought this case  
14 to their attention as I did for another client, which  
15 is the Federal Farm Credit Bank System, which at the  
16 time was not issuing these securities. They began  
17 issuing them a few years later. They did not issue  
18 such bonds until about I believe 2010.

19 Q. Now, it says here that Tennessee Valley Authority  
20 lost \$4,568? Do you see where my finger is?

21 A. Yes.

22 Q. Does the fact that a client of yours lost that  
23 money, does that have anything to do with the opinions  
24 that you reached in this case?

25 A. None whatsoever. I had not even realized that

1       they were put on this page.

2       **Q.**   Now I want to show you Exhibit 12.  Is this a  
3       chart that you prepared breaking down the same loss by  
4       account?

5       **A.**   Yes, it is.

6       **Q.**   And the accountholder on the far left column,  
7       would that be the individual who is listed as a joint  
8       account holder on these accounts?

9       **A.**   Yes.

10      **Q.**   And it's the same numbers, correct me if I'm  
11      wrong, just broken down by account and adds up to the  
12      same total loss of \$12,482,108?

13      **A.**   Yes.

14      **Q.**   Now, I want to show you Exhibit 13.  Is Exhibit 13  
15      the same total losses that's broken down by brokerage  
16      house in which the accounts were opened?

17      **A.**   Yes.

18      **Q.**   And it indicates that the majority of the losses,  
19      more than \$7.6 million came from Ameritrade accounts?

20      **A.**   Yes.

21      **Q.**   Now, finally, were you asked fairly recently to  
22      perform an analysis with these numbers to determine how  
23      much of those losses came from accounts -- came from  
24      bonds that were redeemed on or after July 1st of 2007?  
25      I'm showing you now Exhibit 14.  Do you see that in

1 front of you?

2 A. Yes, I do.

3 Q. Did you just essentially go back into your data  
4 and cull out the bonds that were redeemed before July  
5 1st, 2007, and redo the calculations?

6 That was a bad question.

7 Did you specifically look at in preparing this  
8 chart only the bonds that were redeemed after July 1st  
9 of 2007?

10 A. I believe so. Yes.

11 Q. And did that total equal \$12,304,392.67?

12 A. Yes.

13 Q. And was that because an overwhelming percentage of  
14 these bonds were purchased after July of 2007?

15 A. Yes.

16 MR. VILKER: Your Honor, I have no further  
17 questions.

18 THE COURT: All right. Why don't we take our  
19 morning break at this point before we proceed to  
20 cross-examination.

21 Dr. Kalotay, you'll be remaining under oath  
22 during our break, but for now you can step down. We'll  
23 take a short break and be back by 11:30.

24 (Recess.)

25 THE COURT: Doctor, I just remind you that

1       you're still under oath.

2               Cross-examination, Mr. Murphy?

3               MR. MURPHY: Judge, yes. Judge, just a little  
4 out of the ordinary, Mr. Caramadre wishes to do his own  
5 cross-examination.

6               THE COURT: All right.

7               MR. VILKER: Your Honor?

8               THE COURT: Yes.

9               MR. VILKER: Mr. Caramadre is not pro se. He  
10 has an attorney. I need to check the Local Rules, but  
11 I don't think he's entitled to cross-examine witnesses.

12              MR. CARAMADRE: Your Honor, I'd like to argue  
13 against that. I was a practicing attorney. The  
14 Government has been working on this for almost  
15 four-and-a-half years. My attorney has been only  
16 working on it for three months. I believe I am most  
17 qualified to answer an expert that the Government has  
18 brought here with impeccable credentials the expert  
19 has.

20              THE COURT: I'm inclined, Mr. Vilker, under the  
21 circumstances to permit Mr. Caramadre to proceed. I  
22 think it is irregular.

23              It might have been preferable, Mr. Murphy, to  
24 bring it to Mr. Vilker's attention before this moment.  
25 And I think I'm going to permit Mr. Caramadre to do it

1 as a pro se litigant notwithstanding that he has advice  
2 of counsel. If it becomes troublesome for any reason,  
3 I think we'll go the more traditional route.

4 MR. MURPHY: Judge, I appreciate that. For the  
5 record, your Honor, I did not realize until a few  
6 moments ago that Mr. Caramadre was intent on doing  
7 cross-examination.

8 THE COURT: All right.

9 THE MARSHAL: Can I speak to you for a second,  
10 Judge?

11 THE COURT: Yes.

12 (Discussion off the record.)

13 MR. VILKER: Your Honor, we renew our objection.  
14 The case law, my understanding, and we could go back to  
15 the office and find it for your Honor, is very clear  
16 that there's no such thing as hybrid representation.  
17 You either represent yourself or you have counsel. And  
18 if you have counsel, you're not allowed to act as your  
19 own attorney. I believe Mr. Caramadre has been  
20 disbarred or is in the process of being disbarred and  
21 he's not allowed to. And our concern is ultimately  
22 he's going to argue that this was error to allow him to  
23 question a witness, that any statements he makes can be  
24 used against him, including in his sentencing next  
25 week, and this is going to cause some significant

1 obstacles down the road. And that's part of the reason  
2 why this Rule is there in the first place. If you have  
3 an attorney, your attorney acts for you.

4 THE COURT: Thank you, Mr. Vilker. And I would  
5 just observe that I -- I'm not sure what  
6 Mr. Caramadre's status as an attorney is, but in  
7 contemplating his proceeding, I am not contemplating  
8 that he is doing that in his capacity as an attorney.  
9 It would be as a pro se litigant, albeit one  
10 represented by counsel at this hearing.

11 Mr. Murphy, Mr. Vilker has raised some serious  
12 concerns. Can you address them?

13 MR. MURPHY: Judge, yes. It's my understanding  
14 that Mr. Caramadre's license in the State of Rhode  
15 Island has been suspended. I believe that to be  
16 accurate. As part of his license here, I would say  
17 that the disciplinary counsel in Rhode Island, the  
18 Rhode Island Supreme Court controls his law license.  
19 It's my understanding that that has been suspended.

20 Judge, this is not the trial of the matter.  
21 This is a restitution hearing. Mr. Caramadre does have  
22 expertise in this area, and he has basically insisted  
23 to me and Mr. Olen that he wants to conduct his own  
24 cross-examination of Dr. Kalotay.

25 THE COURT: Mr. Vilker raises a point that



1 really is the reason why I am now somewhat concerned,  
2 and that is that because, if you sort of go by the  
3 book, there's no question that Mr. Vilker is correct,  
4 that if you have counsel then it is your counsel who  
5 must proceed, not the individual as if they were pro  
6 se. You're either one or the other.

7 So I'm accepting potentially something that's  
8 off the beaten path, and Mr. Vilker's concern is that  
9 that could come back as a claim of error since it  
10 certainly is inconsistent with what's technically the  
11 right path.

12 So I think Mr. Vilker is making a good point,  
13 which causes me to reconsider whether it would be  
14 appropriate to allow Mr. Caramadre to engage in that  
15 examination when his statements in the course of the  
16 examination could be used against him and then he could  
17 assert error arising from that, which is an assertion  
18 that Mr. Vilker is right, it's technically off the  
19 beaten path.

20 MR. MURPHY: Judge, it is off the beaten path.  
21 I know in some circumstances -- I apologize I do not  
22 have the case law. I was preparing my own  
23 cross-examination so I wasn't ready for this. This  
24 case has taken some bounces off the beaten path, and  
25 the Court knows the procedural history of this case.

1           Judge, I would say if Mr. Caramadre insists to  
2           me and Mr. Olen that he wants to conduct his own  
3           cross-examination that he could waive any right that he  
4           has if this were ever to come back as to why he was  
5           allowed to conduct his own cross-examination. My  
6           understanding, Judge, is he is not testifying as a  
7           witness although he was listed in Mr. Olen and my  
8           objection in our response to the Court. I have no  
9           intention of calling Mr. Caramadre today during the  
10          furtherance of the bond hearing as a witness. So his  
11          cross-examination would be that, simply  
12          cross-examination.

13                 THE COURT: Mr. Vilker.

14                 MR. VILKER: Your Honor, just to give you some  
15          perspective on the history of this case, a similar  
16          issue occurred a few months before trial in which  
17          Mr. Caramadre had a new attorney, Anthony Traini came  
18          into the case. He was representing a Government  
19          witness at the time. Judge Smith agreed if  
20          Mr. Caramadre were to waive that conflict that  
21          Mr. Traini could represent Mr. Caramadre.

22                 Judge Smith had an extensive colloquy with  
23          Mr. Caramadre under oath in which it was explained to  
24          him that this waiver could severely impact his rights  
25          and Mr. Caramadre indicated he's fully aware that that

1 was a possible consequence and wanted to proceed  
2 accordingly.

3 Fast forward several months and in a motion to  
4 withdraw his guilty plea hearing he's arguing to the  
5 Court that his attorneys, Attorney Traini was -- did  
6 not represent him appropriately because his loyalties  
7 were conflicted.

8 So this is a Defendant who has a history of kind  
9 of doing these off the beaten path, so to speak, legal  
10 maneuvers and then using them down the road as an  
11 opportunity to claim error or ineffective assistance of  
12 counsel.

13 So we would strongly object, your Honor. And we  
14 believe the case law that we don't have at our disposal  
15 is very clear that this is impermissible.

16 MR. OLEN: Your Honor, if I may?

17 THE COURT: You may.

18 MR. OLEN: I'd just like to respond to what  
19 Mr. Vilker just brought up. In the waiver hearing that  
20 was held regarding Mr. Caramadre's waiving any  
21 objection to Mr. Traini coming on board, that hearing  
22 was -- the crux of that hearing was whether or not he  
23 would waive any conflict based on his representation of  
24 Mr. Maggiacomo.

25 In our motion to withdraw the guilty plea, our

1 claim of conflict was based on the fee agreement  
2 itself. It had nothing to do with Mr. Maggiacomo. So  
3 there were really two different claims. It wasn't a  
4 case where we were trying to go back on the waiver  
5 itself with respect to Mr. Maggiacomo. It was entirely  
6 whether or not that fee agreement created a conflict.  
7 So they're really two different issues.

8 THE COURT: All right. I'm going to  
9 quasi-reverse myself. Here's how I'd like to proceed.  
10 Let's proceed with traditional cross-examination by  
11 counsel. I suspect we'll get to our lunch break before  
12 that's completed.

13 Mr. Murphy, you indicated you had some case  
14 authority to bring to my attention potentially? No?

15 MR. MURPHY: Judge, no, but I'm aware that there  
16 have been people that have given their own summations.  
17 This is not a case with a jury. I believe Mr. Vilker  
18 said that he had some case law.

19 MR. VILKER: I need to find it but --

20 THE COURT: Anyway, I will take into  
21 consideration anything that you can bring to my  
22 attention; and if after lunch we can review the law on  
23 this issue, if Mr. Caramadre is not satisfied with the  
24 cross-examination and believes that there are remaining  
25 issues that he would like to cover, I'll revisit

1       permitting him in effect of a third, so Mr. Murphy will  
2       get a shot and Mr. Thompson will get a shot and then if  
3       I conclude that it appears appropriate, Mr. Caramadre.

4               I will say that Mr. Vilker's argument about a  
5       latter argument coming back and asserting error arising  
6       from permitting Mr. Caramadre to conduct the  
7       examination is a significant concern to me. I hear  
8       Mr. Olen's presentation regarding whether or not the  
9       colloquy on the Traini conflict ended up being  
10      precisely the same thing and I think there clearly was  
11      a difference, but this certainly is a case where there  
12      was a plea colloquy and then a withdrawal so that we do  
13      have some history in this case that I think justifies  
14      the concern raised by the Government.

15             MR. VILKER: The only thing I would add to that,  
16      your Honor, is we disagree with what Mr. Olen said.  
17      Mr. Caramadre clearly in the briefs and I believe in  
18      argument attempting to withdraw the guilty plea was  
19      arguing that Mr. Traini's interests were conflicted  
20      because he was looking out for the interests of his  
21      other client, Mr. Maggiacomo. So I think it's pretty  
22      much an apples-to-apples type situation.

23             THE COURT: All right. So for now we will  
24      proceed down the traditional road. Mr. Murphy?

25             MR. MURPHY: Judge, I had one last comment based

1 on what the Court just said.

2 THE COURT: Yes.

3 MR. MURPHY: Judge, Mr. Caramadre pointed out to  
4 the Court that I had been involved in this case for  
5 approximately a little over three months. By my count,  
6 I'm either attorney number seven, eight or nine for  
7 Mr. Caramadre. I know Mr. Caramadre has jotted down  
8 some notes during Mr. Vilker's direct examination of  
9 Dr. Kalotay. I would ask, Judge, for a little patience  
10 from the Court, if possible, because this afternoon if  
11 the Court finds that the Court will not allow  
12 Mr. Caramadre to cross-examine, if during and when I'm  
13 ready to complete my cross-examination if I may confer  
14 with Mr. Caramadre and Mr. Olen to see if there are  
15 other questions that Mr. Caramadre asks.

16 THE COURT: Absolutely. Including if you wish  
17 to take a break before you close your  
18 cross-examination, that's fine.

19 MR. MURPHY: Thank you, Judge.

20 **CROSS-EXAMINATION BY MR. MURPHY**

21 Q. Dr. Kalotay, good afternoon, sir.

22 A. Good afternoon. Morning.

23 Q. It's still morning. Feels like afternoon.

24 Doctor, you were hired by the United States  
25 Attorney's Office to do your study as it pertains to

1 bonds in this case?

2 A. Yes.

3 Q. Okay. And when was your first contact with the  
4 United States Attorney's Office, sir?

5 A. It must have been in the spring of last year  
6 sometime.

7 Q. The spring of 2012?

8 A. 2012, yes.

9 Q. And to date, you have been paid how much, sir?

10 A. I am not sure. I believe it's about a total  
11 probably around \$24,000, I believe.

12 Q. And that was paid to you at a rate of \$450 an hour  
13 by the Government?

14 A. Some of it was paid to me at that rate, and the  
15 rest of it was paid at lower rates for the people who  
16 were doing the analysis.

17 Q. Who were the people doing the analysis?

18 A. I have two employees who were working on this,  
19 Leslie Abreo and Radek Wyrwas.

20 Q. So Leslie and Roderick --

21 A. Radek, yes.

22 Q. -- Radek are the people that actually did the  
23 analysis?

24 A. They are the ones who crunched the numbers.

25 Q. You didn't crunch the numbers?

1 A. No, I did not.

2 Q. So you're just taking what they gave you?

3 A. Yes.

4 Q. Now, sir, Mr. Vilker on his direct examination  
5 gave you an exhibit which has 14 tabs, Government's 1  
6 which contains numbers 1 through 14, and you have that  
7 in front of you, do you not?

8 A. I do.

9 Q. When was the first time that you saw this bound  
10 booklet, sir?

11 A. This morning.

12 Q. When was the last time prior to testifying that  
13 you spoke to Mr. Vilker about your testimony?

14 A. I spoke with Mr. Vilker last Wednesday.  
15 Wednesday, I believe. He had a specific question about  
16 a document.

17 Q. Now, you were hired prior to the start of  
18 Mr. Caramadre's trial in this matter?

19 A. I'm not sure what the official trial date was. I  
20 can't comment on that.

21 Q. Well, you said you were hired last spring, meaning  
22 2012?

23 A. Yes.

24 Q. So you were in place working for the Government  
25 prior to October and November of 2012, correct?



1 A. Yes, I was.

2 Q. And in 1990, you stated on direct examination that  
3 you formed your own business, Andrew Kalotay and  
4 Associates, correct?

5 A. Yes.

6 Q. And you've been based in New York City since 1990?

7 A. Yes, I have been.

8 Q. And part of your job with Kalotay and Associates  
9 according to what you said on direct examination is  
10 that you advise issuers, correct?

11 A. Yes.

12 Q. And that is bond issuers, correct?

13 A. Bond issuers, generally, yes.

14 Q. Okay. And have you been advising bond issuers  
15 since 1990?

16 A. Yes, I have been.

17 Q. And when you advise them, do you advise them as to  
18 setting up a prospectus with a bond indenture?

19 A. No, I do not get into the indenture normally.  
20 That's not my area of expertise.

21 Q. Do you get into the prospectus at all.

22 A. I am familiar with prospectuses, but I don't  
23 really look at prospectuses. I focus on refunding  
24 provisions and maturities, analytical concepts.

25 Q. When you -- I'm sorry, sir. You focus on

1        refunding?

2        A.    Yes.    On refunding provisions, so-called embedded  
3        options in a bond.

4        Q.    Okay.    So you have nothing to do with getting that  
5        bond from an issuer ready for market?

6        A.    No, I don't.

7        Q.    You have nothing to do with getting that bond  
8        ready for sale on the retail market?

9        A.    None whatsoever.    I do not have any interaction  
10       with the underwriters.

11       Q.    Just on the refund, on refund provisions, correct?

12       A.    Refunding and maturities.

13       Q.    Refunding and maturities?

14       A.    And maturities.    Underwriting fees.

15       Q.    Underwriting fees.    Okay.

16                Now, Dr. Kalotay, you would agree with me that  
17       there are four ways to retire a bond, correct?

18       A.    I'm not sure what you mean.

19       Q.    Well, for a company that issues a bond, the  
20       prospectus travels with that particular bond from  
21       cradle to grave, correct?

22       A.    There's a prospectus associated, there's an  
23       indenture associated with every bond, yes.

24       Q.    Right.    And that prospectus follows a particular  
25       bond until that bond is retired, correct?

1       A.    I'm not sure what you mean "follows it."  It's  
2       associated with the bond.

3       Q.    Well, the prospectus is the bible of that bond,  
4       correct?

5       A.    That's correct.

6       Q.    And it follows a particular bond from cradle to  
7       grave, correct?

8       A.    Every bond has a prospectus.

9       Q.    Now, you can retire a bond by when a particular  
10      bond reaches maturity, correct?

11      A.    Correct.

12      Q.    A bond can be called by the issuer?

13      A.    Correct.

14      Q.    If there is an option on a bond, the owner of that  
15      bond can put it to the company, correct?

16      A.    What you're referring to is a straight put without  
17      the estate-put, correct.

18      Q.    And then there's the matters which are complicated  
19      would be with a court or a bankruptcy court or  
20      something like that, correct?

21      A.    Well, that's correct.  But there are some other  
22      things like sinking funds and more complicated features  
23      that --

24      Q.    We'll get to sinking funds in a minute, sir.

25      A.    That's fine.

1 Q. Now, when you spoke about two bonds in the  
2 exhibit that Mr. Vilker gave you --

3 A. May I ask you a question? Because you mentioned  
4 four and I'm still at a bit of a loss. What are those  
5 four? Just so that we're on the same --

6 Q. A bond reaches maturity; it's called by the  
7 issuer; in this case there's an estate-put; and fourth  
8 is something that we don't have to deal with here, if  
9 there's a bankruptcy proceeding or a court proceeding.

10 Now, I would ask you to look at Exhibit Number  
11 12.

12 Sir, Number 12, which is part of Government's  
13 Exhibit 1, says "Loss By Accountholder." And the  
14 second column it says, "Joint Accountholder," and it  
15 has a person's name. Are you the one that compiled  
16 this data?

17 A. I did not do this personally.

18 Q. Sir, if you can look at Exhibit Number 11, where  
19 it says, "Loss By Issuer" in Government's Exhibit  
20 Number 1, part 11, are you the one that completed that  
21 data?

22 A. No, I did not.

23 Q. And Government's Exhibit Number 1, Section 13 --

24 MR. MURPHY: Judge, I'm sorry.

25 THE COURT: Probably can do without it since

1 we've all got the compilation.

2 It's back.

3 Q. Now, that Section 13 of Government's 1, it says,  
4 "Loss by Brokerage." Did you, Dr. Kalotay, compile  
5 that data?

6 A. No, I did not.

7 Q. Now, where it says "Loss by Brokerage," that would  
8 refer to the brokerage house?

9 A. Well, it's the accounts with the particular  
10 brokerage house.

11 Q. The accounts that are held?

12 A. That are held in the brokerage house.

13 Q. Right. Are you saying that the brokerage house  
14 actually lost money?

15 A. No, I do not.

16 Q. So it shouldn't say "Loss By Brokerage"?

17 A. It's the loss of accounts by brokerage.

18 Q. Loss of accounts by brokerage?

19 A. It's the accounts that lost money by the various  
20 -- and it's sorted by the brokerage.

21 Q. Well, looking at number two from the bottom,  
22 Charles Schwab didn't lose money? They made money by  
23 conducting sales, correct?

24 A. Schwab didn't make or lose money in this case.  
25 They may have gotten some very small fees associated

1 with the trading. The accounts residing with Schwab  
2 were the ones that gained or lost money depending on  
3 how you look at it. The loss here is from the  
4 perspective of the issuers whose bonds were held in  
5 these accounts.

6 Q. Okay. But it's not a loss by the brokerage?

7 A. It's definitely not by the brokerage.

8 Q. Now, sir, going back to Exhibit Number 11, you had  
9 mentioned when Mr. Vilker had asked you that you  
10 represent Tennessee Valley Authority, which is the  
11 fifth bond issuer listed from the bottom, correct?

12 A. I am an advisor to Tennessee Valley Authority.

13 Q. And there must be on that page 20-plus bond  
14 issuers. Did you look at the prospectus for the bond  
15 issuers that are contained in Section 11 of  
16 Government's Exhibit 1?

17 A. I did not look at prospectuses.

18 Q. Okay. So as it relates to Government's Exhibit 1,  
19 Section 11, Table 1 that says "Loss by Issuer," there's  
20 over 20 bond issuers, correct?

21 A. Yes, it is.

22 Q. How many to be exact, sir?

23 A. I'm not sure how many exactly.

24 Q. Can you count the bond issuers quickly to  
25 yourself.

1 A. Looks like 33.

2 Q. Thirty-three? Okay. Now, those are 33 bond  
3 issuers?

4 A. Thirty-three issuers, yes.

5 Q. Sir, there are not 33 bond issuers. Some of those  
6 are CDs, correct?

7 A. There are 33 corporations listed here.  
8 Thirty-three names listed here.

9 Q. You just said they were 33 bond issuers.

10 Let me ask you this way, Dr. Kalotay. I'll  
11 rephrase the question.

12 Are you aware of the 33 issuers that you just  
13 counted that some of those issuers pertain to CDs and  
14 not bonds?

15 A. I believe some of them are CDs but CD structure  
16 very much like --

17 Q. Did you know prior to this morning that there were  
18 CDs in Government's Exhibit 1, Section 11?

19 A. I believe it was called to my attention before,  
20 yes.

21 Q. But I thought you said you weren't the one that  
22 compiled this data?

23 A. No, I'm not. No, I was not the one who compiled  
24 it, but I discussed it with my two colleagues who were  
25 working on this.

1 Q. So you just said a moment ago that CDs are the  
2 same as bonds?

3 A. CDs are debt instruments from the prospective of  
4 the corporation.

5 Q. They're not securities?

6 A. They are normally not securities.

7 Q. Now, sir, Mr. Vilker had showed you and I believe  
8 at first you didn't recall the name of the article that  
9 you wrote in 2006 of "Some Bonds Are Worth More Dead  
10 Than Alive"?

11 A. I recall it. It's in here.

12 Q. Right. But at first you didn't recall the name of  
13 it, did you?

14 A. No. The question, I believe, pertained to the  
15 article I wrote in 2009 and not in 2006, which is a  
16 longer title.

17 Q. What article did you write in 2009 that's in this  
18 exhibit?

19 A. The article -- it's not in this exhibit but it's  
20 listed under my qualifications, and the article is  
21 something like "Estate-Put Bonds Value Lies in the Eyes  
22 of the Beholder," or something along those lines. But  
23 that's not the 2006 article. It's the 2009 article.

24 Q. So if I can refer you to the article that you  
25 wrote in 2006, "Some Bonds Are Worth More Dead Than



1       Alive," can you go through the exhibit and find that  
2       article, please, sir?

3       A.    Can you tell me --

4       Q.    It's number 7.

5       A.    Number 7.   Yes.

6       Q.    Okay.   That article deals with estate-puts,  
7       correct?

8       A.    Correct.

9       Q.    And estate-puts can be called death bonds or  
10      death-puts, correct?

11      A.    Yes.   Or survivor options is another way of  
12      describing them.

13      Q.    You don't like to use the name "death-put," do  
14      you, personally?

15      A.    I don't personally use them, no.

16      Q.    I'm not saying --

17      A.    No. No.   I don't like to use them.   It's a way to  
18      explain these bonds in terms of the old Treasury bonds,  
19      which were referred to as death-put bonds.   That's kind  
20      of the chronology of it.

21      Q.    You don't like to use that vernacular of  
22      "death-put."   You like to call it an estate-put --

23      A.    Estate-put.

24      Q.    -- or survivor option, correct?

25      A.    Or survivor option, yes.

1 Q. Now, you had mentioned that when you wrote this  
2 article you were not aware that these bonds could be  
3 held by joint tenants?

4 A. I was not aware of that.

5 Q. When did you first become aware that these bonds  
6 could be held in a joint tenancy?

7 A. I learned about this in the context of this  
8 particular case.

9 Q. So sometime in the spring of 2012?

10 A. Yes.

11 Q. That's the first time you became aware of it?

12 A. That's the first time.

13 Q. So when you wrote this article in 2006, you did  
14 not know that people were using the death-put option as  
15 an investment vehicle?

16 A. I did not know that. As a joint account?

17 Q. Yes.

18 A. I did not know that they would be having joint  
19 accounts.

20 Q. And you've been dealing with bonds since before  
21 the 1990's, correct, sir?

22 A. That's correct.

23 Q. And in this article, you talk about you went back  
24 to old time U.S. Treasury bonds, correct?

25 A. That's correct.

1 Q. And they were known as flowering bonds?

2 A. Flower bonds.

3 Q. And the flower bonds would come to be flowering,  
4 but in 1998 they did away with them, correct?

5 A. That's correct.

6 Q. And you said they were similar to these bonds?

7 A. In the sense that they could be put back at par,  
8 or more precisely they could be used at par value  
9 against estate taxes upon the death of the holder.

10 Q. Well, that's a bit different because the reason  
11 why flower bonds went out is because when you bought a  
12 flower bond you did not buy it at par value, there was  
13 an accretion rate, correct?

14 A. I'm not sure. You may be right on that but my  
15 recollection is that they would be sold with below  
16 market coupons so a Treasury could be -- regular  
17 Treasury were issued for sake of argument at ten  
18 percent, these flower bonds would bear a lower coupon,  
19 say eight percent.

20 Q. There was nothing illegal about flower bonds?

21 A. There was nothing illegal about flower bonds,  
22 that's correct.

23 Q. They went away because the Government had to pay  
24 face value for a bond that had sold much less than face  
25 value, correct?

1       A.    I am not sure why they were discontinued.

2       Q.    Can you look through your article about "Some  
3       Bonds Are Worth More Dead Than Alive" and tell me why  
4       they were discontinued?

5       A.    I'm not sure what you're referring to here. I'm  
6       looking at the first page. Can you direct me  
7       specifically?

8       Q.    Yes. I was looking at what is an estate-put where  
9       you mentioned flower bonds and flower bonds actually  
10      went away in 1998. I'm asking you if you know why they  
11      are not offered anymore?

12      A.    And I indicated that I do not know, and I thought  
13      you told me that it was somewhere here and I cannot see  
14      any -- maybe I'm missing some reference to it.

15      Q.    Now, on an estate-put bond, going back to your  
16      expertise as a person who advises issuers, when a bond  
17      is issued, I believe you said your expertise was in the  
18      refunding of money as it pertains to the issuance of a  
19      bond?

20      A.    Structuring of bonds and bond management, debt  
21      management. The expression I would like to use is  
22      cradle to grave.

23                So when you structure the bond, you have to take  
24      into account all kinds of contingencies that might  
25      arise during the life of the bond, including calls if

1 it's callable, puts if it is puttable. And all of  
2 these things have to be accounted for in analyzing the  
3 bond and determining what is its expected cost.

4 Q. And you had just mentioned the term that was used  
5 previous, cradle to grave, correct? And that's your  
6 expertise on how to advise bond issuers about debt  
7 management of particular bonds, correct?

8 A. Correct.

9 Q. And the people that you've worked with, the  
10 companies that you've worked with that have issued  
11 bonds have taken your advice on debt management from  
12 time to time, correct?

13 A. They rely on me from time to time, yes.

14 Q. And part of the debt management relates to  
15 estate-puts or death-puts, correct?

16 A. The decision to issue bonds with or without  
17 death-puts, yes.

18 Q. Well, the decision to issue bonds is not your  
19 decision. It's the company's decision, correct?

20 A. The decision is the company's decision but often  
21 we do the analysis that compares the expected cost of a  
22 bond with an estate-put with that of a regular  
23 institutional bond.

24 Q. Okay. Now, the estate-put bond or an estate-put  
25 bond is not a -- it's a retail bond, correct?

1 A. It is for retail, correct.

2 Q. It's not an institutional bond?

3 A. Correct.

4 Q. There would be no reason for an institution to buy  
5 a bond with a death-put, correct?

6 A. Correct.

7 Q. And a death-put makes a particular bond attractive  
8 to a retail investor, correct?

9 A. Correct.

10 Q. Now, how long have you been working with companies  
11 who issue bonds as an advisor who deals with risk  
12 management?

13 A. In general?

14 Q. In general, sir.

15 A. I have been working in this area since the time I  
16 joined the Treasury organization of the American  
17 Telephone and Telegraph Company, and that was in, I  
18 believe, September of 1974. At the time, AT&T was the  
19 world's largest corporate issuer of debt.

20 Q. Now, sir, can you estimate how many bond issues  
21 you have worked on or have advised on?

22 A. In issuance and refunding, hundreds.

23 Q. Hundreds?

24 A. Hundreds.

25 Q. And out of those hundreds, how many have you dealt

1 with as it relates to estate-puts?

2 A. Very few. Very few.

3 Q. Give me a number, please, if you can.

4 A. I would say probably -- let me say ten, but let me  
5 also add that earlier today we referred to some  
6 calculators that my company developed, and those  
7 calculators are made available to our clients who, in  
8 turn, use those calculators to determine whether or not  
9 to issue bonds with estate-put, so there's a  
10 connection.

11 Q. I haven't asked anything about your calculator.

12 A. That's fine.

13 Q. I'm just asking when did you first become involved  
14 with companies as it relates to the issuance of bonds  
15 where you provide advice and they concern estate-puts?

16 A. Well, I have been working in this area advising  
17 companies on debt management since 1974, and I have  
18 been involved in analyzing the estate-put provision  
19 since I believe 1994 when I first came across this  
20 structure as an advisor to the Tennessee Valley  
21 Authority.

22 Q. So with the Tennessee Valley Authority in 1994,  
23 that's when you first became aware of estate-put bonds?

24 A. I believe so. I'm not sure about the year, but I  
25 became aware of estate-put bonds through my

1 association, through my consulting for the Tennessee  
2 Valley Authority.

3 Q. And in the market, in the economy when interest  
4 rates decline, you advise issuers to call their bonds,  
5 correct?

6 A. Yes.

7 Q. Now, sir, generically, an issuer of a bond, take  
8 General Motors because that was number one on the list  
9 of exhibits, when General Motors issues a bond, they  
10 sell those bonds for face value, correct?

11 A. These retail bonds are typically sold at face  
12 value. Other bonds, institutional bonds can be sold at  
13 a different price.

14 Q. But we're talking in Exhibit 1 of retail bonds,  
15 correct, sir?

16 A. Correct.

17 Where are we here? Can you please direct me to  
18 what section we are looking at.

19 Q. Sure. If you want to go back to a section, sir.

20 THE COURT: Mr. Murphy, I believe each of the 14  
21 items are separate exhibits.

22 MR. MURPHY: Judge, I apologize. I thought they  
23 were part of a group exhibit.

24 THE COURT: No problem.

25 Q. Okay. Exhibit number 11, sir, those are retail



1 bonds, correct?

2 A. These are all retail bonds, yes.

3 Q. Actually, we just said that some of them are CDs,  
4 correct?

5 A. Held by retail.

6 MR. MURPHY: Judge, if I can have Defendant's 2  
7 marked for identification.

8 THE COURT: Maybe we should mark it as  
9 Defendant's B.

10 MR. MURPHY: As B. That's fine, Judge.

11 And Judge, this would be in Mr. Olen's  
12 submission as the 2005 General Motors prospectus.

13 THE COURT: Okay. Good. I have a copy.

14 MR. MURPHY: Thank you.

15 (Defendant's Exhibit B marked for  
16 identification.)

17 Q. Dr. Kalotay, I have placed in front of you and I  
18 would ask if you see is a document which is a  
19 prospectus from General Motors Acceptance Corporation.  
20 Do you have that in front of you?

21 A. I see part of it.

22 Q. Is that better, sir?

23 A. Yes, please.

24 Q. Now, did you review this prospectus when you did  
25 your analysis of losses?

1 A. I did not.

2 Q. And sir, a bond prospectus is a contract of  
3 adhesion between the issuer and the purchaser, correct?

4 A. Correct.

5 Q. The bond issuer makes all the rules, correct?

6 A. I'm not sure what you mean by the bond issuer  
7 making --

8 Q. The rules as to how the bond is going to be  
9 redeemed, how it's going to be sold?

10 A. Well, it's negotiated.

11 Q. Well, it's negotiated in that it's sold, correct?

12 A. It's a result of some negotiation.

13 Q. As a hypothetical, as Mr. Vilker pointed out this  
14 morning, I can't go to General Motors and say I want to  
15 buy a hundred thousand dollars worth of your bonds in  
16 this \$15 billion indenture and say I want to change the  
17 rules, can I?

18 A. Not once the bonds have been issued.

19 Q. Right. So this prospectus goes from cradle to  
20 grave with issued bonds, correct?

21 A. Correct.

22 Q. The purchaser of the bonds cannot change the  
23 prospectus, correct?

24 A. Nor can the issuer.

25 Q. Who makes the rules for the prospectus? Who sets

1 the terms, sir?

2 A. It's negotiated prior to the issuance of the  
3 bonds.

4 Q. Negotiated by who?

5 A. Normally, it's negotiated between the -- again,  
6 this is not my area of expertise. I do want to  
7 emphasize that, but it's negotiated between the issuer  
8 and the underwriter of the bonds.

9 Q. Not the retail customer, correct, sir?

10 A. No. The retail customer has some indirect input  
11 into this via the underwriter.

12 MR. MURPHY: Judge, may I approach the witness?

13 THE COURT: Yes.

14 Q. Dr. Kalotay, I'm approaching you because I can't  
15 seem to make the screen larger. I'm handing you page  
16 30 of Defendant's Exhibit B for identification and  
17 would ask if you would look at page 30.

18 Down the bottom of the left side, sir, it deals  
19 with the estate-puts, correct?

20 THE COURT: Mr. Murphy, excuse me, just a  
21 question. On the copy of the exhibit that I have,  
22 there's a page 30 that's handwritten down the bottom  
23 and then there's a page 28 that's typewritten on the  
24 document. Which page number are you referring to, the  
25 typewritten?

1 MR. MURPHY: Page 30? It should be in the  
2 middle of the page, Judge, the number.

3 THE COURT: The middle at the bottom?

4 MR. MURPHY: Yes.

5 THE COURT: So it's the typewritten number, not  
6 the handwritten number?

7 MR. MURPHY: Yes.

8 THE COURT: Okay. Thank you.

9 Q. And there's a section in this particular  
10 prospectus that deals with payment upon death, correct,  
11 Doctor?

12 A. Yes, it is.

13 Q. And I'd ask if you could take a moment just to  
14 peruse through that paragraph.

15 A. The first paragraph immediately under --

16 Q. Where it says "Payment upon death," that section  
17 on page 30, both the left bottom paragraph and the  
18 paragraphs on the right-hand side of that page.

19 (Witness read document.)

20 THE COURT: Fair amount of material, Mr. Murphy,  
21 to read on the fly.

22 A. All right.

23 Q. Now, Doctor, that death benefit is actually part  
24 of the prospectus that travels with any tranche of  
25 bonds until it's retired, correct?

1 A. Yes.

2 Q. Now, sir, those terms as you've just agreed with  
3 me are set by the issuer and the brokerage house before  
4 they're offered for sale on the open market, correct?

5 A. By the underwriter and the issuer, yes.

6 Q. And you've already said that myself as a purchaser  
7 could not change those terms once the bond is issued  
8 and the prospectus travels with it, correct?

9 A. That's correct. Nor could the issuer. It's a  
10 contract.

11 Q. Okay. I either can purchase that GMAC bond and  
12 abide by the contract, or I have the choice not to buy  
13 that bond, correct?

14 A. That's correct.

15 Q. And as it relates to a death-put or an estate-put,  
16 those are the terms and conditions of how I can put  
17 that bond upon the death of a joint tenant or owner,  
18 correct?

19 A. Correct.

20 Q. And when you advise companies as part of your debt  
21 management, there's always a percentage of the total  
22 bond indenture that is set aside for an estate-put,  
23 correct, if they are estate-put bonds?

24 A. I'm not sure what you mean by "being set aside."

25 Q. In other words, that prospectus on page 30 that

1       you have in front of you that deals with the October  
2       7th, 2005, issuance of \$15 billion of General Motors  
3       bonds says that one percentage point must be set aside  
4       for estate-puts during a calendar year, correct?

5       A.     Where do you see the phrase "being set aside"?  
6       I'm not saying it's not here but --

7       Q.     "Set aside" is my word.

8       A.     That's your word. All right.

9       Q.     It's one percent.

10      A.     Just for the sake of clarity, to the best of my  
11      knowledge, no money is being, quote, unquote, set  
12      aside.

13      Q.     Well, I'm not talking about sinking funds or  
14      anything like that. I'm just saying that one percent  
15      is there as the risk that will be claimed in a calendar  
16      year, correct?

17      A.     One percent may be put, but I think you implied  
18      that the corporation assumes something in anticipation,  
19      the way I hear you. Or I'm misunderstanding what you  
20      said.

21      Q.     The issuer and the underwriter determine the  
22      prospectus, and it says: "A survivor's option will be  
23      accepted in any calendar year to one percent of the  
24      outstanding aggregate principal amount of the note of  
25      the end of the most recent fiscal year but not less

1       than \$1,000,000 in any such calendar year." That's the  
2       amount of money that a company will allow to be  
3       estate-put, correct?

4       A.    That is the amount according to the prospectus,  
5       yes.

6       Q.    And the company is the one that sets that amount?

7       A.    Again, I'm sorry. This is part of a contract  
8       which was set prior to the issuance of this bond by the  
9       underwriter and the company. It's not the company  
10      decides. It's an agreement between the underwriter --

11      Q.    And the company?

12      A.    -- and the company. It's just the way you express  
13      it, you kind of imply that there's an arbitrariness and  
14      the company is doing it. In fact, it's the result of a  
15      negotiation.

16      Q.    Between the company and the underwriter?

17      A.    If I may point out, it's one percent here. In  
18      some cases, I believe it can be as high as two percent.  
19      There are some variations on this.

20      Q.    The one that you saw in Defendant's Exhibit B is  
21      one percent, correct?

22      A.    Yes, please.

23      Q.    And there are certain rules that a company and  
24      underwriter will put in the prospectus as to an amount  
25      and rules that have to be followed before somebody can

1 use a death-put option, correct?

2 A. Well, you call them rules. Bonds are man-made.  
3 These are results of negotiations. The rules are  
4 man-made.

5 Q. Okay. So the result of negotiations are there are  
6 rules that follow a particular tranche of bonds,  
7 correct?

8 A. Correct.

9 Q. You'd agree with me that the customer doesn't set  
10 those rules, your retail customer, sir?

11 A. The customer does not set -- the customer does  
12 have an input into that, however, via the underwriter.

13 The customer, the buyer, the retail buyer does  
14 not set those rules directly, but the buyer does  
15 provide some input into the structuring via the  
16 underwriter.

17 Q. And the bonds that we have dealt with here in  
18 Government's Exhibit 11 are retail bonds, correct?

19 A. That's correct.

20 Q. And these retail bonds are death-put bonds. They  
21 have that option, correct, sir?

22 A. They have the option, yes, they do.

23 Q. And the death-put options that are contained in  
24 Government's Exhibit Number 11, those death-put options  
25 are negotiated by the underwriter and the issuer,



1 correct?

2 A. Yes. Prior to issuance.

3 Q. It doesn't change, does it, sir?

4 A. It does not change.

5 Q. Sir, there's nothing illegal about death-put  
6 options, is there?

7 A. Not to my knowledge.

8 Q. And a death-put option assists the issuer in the  
9 marketability of bonds, correct, sir?

10 A. That's correct.

11 Q. And estate-put options on bonds were around well  
12 before your article in 2006?

13 A. That's correct.

14 Q. Now, sir, when you were contacted in this case,  
15 who was the first person from the Government that  
16 contacted you?

17 A. I believe I got a phone call from Mr. Vilker.

18 Q. In Exhibit Number 11, according to what you stated  
19 on direct examination, what you categorized as loss is  
20 approximately \$12,400,000, correct?

21 A. That's correct.

22 Q. And you did not read the prospectus on any of  
23 those bonds contained in Exhibit 11, did you, sir?

24 A. That is correct. I did not read any of them.

25 Q. And prior to this morning, you did not know that

1 some of these articles in Exhibit 11 were CDs?

2 A. No, actually, I did know.

3 Q. You did?

4 A. I believe I heard it, yeah.

5 Q. Where did you hear it, sir?

6 A. From my colleagues who looked at these. I  
7 couldn't swear by it but that's my recollection that I  
8 did.

9 Q. But you didn't say it this morning when Mr. Vilker  
10 was asking you questions, did you?

11 A. No, I didn't say it this morning, no.

12 Q. You never saw this list prior to this morning,  
13 correct?

14 A. I don't believe I've seen it.

15 Q. Then how do you know your colleagues were talking  
16 about it?

17 A. They were looking at the brokerage accounts.

18 Q. Now, sir, referring back to Exhibit 11 where you  
19 have "Loss by Issuer" is the headline, Table 1, what  
20 issuer out of the -- well, a CD is redeemable on the  
21 spot, correct?

22 Let me rephrase that.

23 MR. MURPHY: Judge, I'll withdraw the question.

24 Q. To redeem a CD on a death-put, you don't have to  
25 go through the rules that are in the prospectus,

1 correct?

2 A. I don't know that. I'm not familiar with the  
3 provisions, death-put provisions of CDs.

4 Q. Well, a CD is controlled by the FDIC, correct?

5 A. I believe it's correct, but I'm not an expert on  
6 the money market instrument.

7 Q. Okay. So you're not an expert and you can't  
8 answer, so out of the 33 items contained in Exhibit 11,  
9 Government's Exhibit 11, you don't know how many CDs  
10 there are, do you?

11 A. I do not.

12 Q. And you didn't take that into account when you did  
13 your analysis, did you?

14 A. No, I did not.

15 Q. I'm sorry, sir. I didn't hear you.

16 A. No, I did not, no.

17 Q. You did not.

18 A. No.

19 Q. Now, through your study and writing and advising  
20 on death-put options, you know that companies allow a  
21 percentage of the outstanding float to be put in a  
22 calendar year, correct?

23 A. You use the term "float." The outstanding face  
24 amount.

25 Q. The outstanding face amount?

1 A. Yes.

2 Q. And you know that through your expertise, your  
3 advisement dealing with issuers and so forth and your  
4 writing on estate-put bonds, correct?

5 A. I know that as I state in my article it's normally  
6 one percent. There are variations on it, but it  
7 typically assumes one percent of the original face  
8 amount.

9 Q. But you knew that before testifying today?

10 A. Sure. That's part of our analysis. That's one of  
11 the assumptions that we use.

12 Q. Okay. And you know companies or issuers, I'm  
13 using them as one, issuers also limit per estate the  
14 amount of a put that can be placed, correct?

15 A. That's correct.

16 Q. Okay. And that's risk that's taken into  
17 consideration by a company before it sells such bond,  
18 correct?

19 A. That is correct.

20 Q. So they know going in, companies know going in,  
21 and you know this through your expertise, that a  
22 company that is going to sell a bond on the retail  
23 market knows in any given year percentagewise between  
24 one and two percent of the bonds can be put because of  
25 the estate option that is contained in those bonds,

1 correct?

2 A. There's a maximum that they legally have to  
3 accept, correct.

4 Q. And there is a limit on the number of bonds or the  
5 amount of face value of the bond that can be put by an  
6 estate or a joint tenant, correct?

7 A. Yes. That's correct.

8 Q. And sir, those are rules that the company knows or  
9 the issuer knows ahead of time before bond one is sold,  
10 correct?

11 A. That is correct.

12 Q. Now, in Exhibit 11, not the CDs but the bonds,  
13 which company hit their annual estate-put limit in the  
14 year that Mr. Caramadre, et al, redeemed his estate-put  
15 bonds?

16 A. I do not know.

17 Q. You don't know?

18 A. I don't know.

19 Q. It was never researched?

20 A. No.

21 Q. Sir, Defendant's Exhibit B --

22 MR. MURPHY: Judge, may I approach the witness  
23 again?

24 THE COURT: Yes.

25 Q. Handing you that prospectus, sir, what is the face

1 amount of that prospectus?

2 A. Fifteen million.

3 Q. Excuse me?

4 A. Fifteen million dollars. Oh, I'm sorry. It's  
5 fifteen billion. Hang on. What's going on here? What  
6 happened here?

7 Q. Fifteen billion, correct?

8 A. Fifteen billion, yeah.

9 Q. Now, look at Exhibit 11. What is the first  
10 company listed in Exhibit 11?

11 A. GMAC, General Motors Acceptance Corporation.

12 Q. What is one percent of 15 billion, sir?

13 A. It's 150 million.

14 Q. Well below 4 million, correct?

15 A. Yes.

16 Q. Can I have the exhibit back, please.

17 So sir, I'm not going to go through every one,  
18 but on Exhibit 11, prior to today you never went  
19 through the prospectus on the General Motors Acceptance  
20 Corp bonds that were redeemed pursuant to a death-put  
21 by either Mr. Caramadre or his associates, right?

22 A. That's correct. I did not go through -- in fact,  
23 I didn't go through any prospectuses.

24 Q. Okay. As it relates to American General  
25 Financial, which I believe is number six or seven on

1 that list, you did not go through the prospectus as it  
2 relates to the put of the estate-put by Mr. Caramadre  
3 or his associates, did you?

4 A. No, I did not.

5 Q. As to the 33 items contained in -- 33 is the  
6 number you gave me in item 11, you don't know -- I'm  
7 not talking about the CDs, but you don't know when  
8 those bonds individually would have matured, do you?

9 A. Not from here, but we did look at the individual  
10 bonds that we analyzed bond by bond.

11 Q. You looked at them?

12 A. Oh, absolutely. Our results are based on  
13 bond-by-bond analysis.

14 Q. And you didn't include that in your writings that  
15 you submitted to the Government, did you?

16 A. We did not.

17 Q. And as we relate to the CDs contained in Exhibit  
18 11, those CDs with estate-put options or death-put  
19 options are redeemable upon death provided that a  
20 person shows satisfactory conditions of death, correct?

21 A. Evidently. So as I indicated before, I'm not an  
22 expert on CDs.

23 Q. But you have CDs in what you've adopted to  
24 determine loss, correct?

25 A. Sure. We use them and we computed what they would

1 cost had they not been put and computed damages based  
2 on that.

3 Q. Sir, we looked in Defendant's Exhibit B a \$15  
4 billion bond issuance from General Motors Acceptance  
5 Corporation, and in Exhibit Number 11 you say that  
6 there were \$4 million in losses that GMAC suffered. Do  
7 you know if GMAC had to go out and borrow for the \$4  
8 million, sir?

9 A. If I may say, that's not a \$15 billion bond  
10 issuance, what you showed me. That's not a single  
11 issue.

12 Q. That's the prospectus?

13 A. That's a prospectus for many issues. Many, many  
14 issues.

15 Q. Right. It's not a tranche, a particular tranche  
16 of bonds.

17 A. Yeah. Many issues. And they didn't have to issue  
18 \$15 billion. Maybe they issued much less. Who knows.  
19 So that's a general prospectus that governs potential  
20 issues.

21 Q. It covers the particular tranche of bonds that are  
22 sold under that prospectus?

23 A. That may be sold.

24 Q. Means a company doesn't have to sell all 15  
25 billion?



1 A. That's right.

2 Q. But any amount of the bonds that that company  
3 sells within that prospectus has to abide by the  
4 prospectus, correct?

5 A. Under that particular indenture provision, yes,  
6 please.

7 Q. Now, sir, today you would agree with me -- today,  
8 when I say today, I mean September 30th of 2013, the  
9 interest rates on bonds are lower than they were in  
10 2008, correct?

11 A. Treasury rates in general, yes.

12 Q. And do you know, sir, if these companies listed in  
13 Exhibit 11 had to go out and borrow money to satisfy  
14 the estate-puts? You don't know that, do you, sir?

15 A. I don't know that. I don't know how they -- where  
16 they got the cash.

17 Q. So your formula is not based on the particular  
18 company's funding index?

19 A. It is based on the individual company's funding  
20 index, and we referred to that earlier as the yield  
21 curve appropriate for the particular issuer.

22 Q. But you don't know if they had to go out and  
23 borrow money to satisfy the puts that were placed by  
24 Mr. Caramadre and his associates, correct?

25 A. We do not know where they got the quality rate for

1 cash, but we can value the liability associated with  
2 the bond, which has been redeemed. In other words, we  
3 can estimate how much it would have cost them to  
4 service that particular bond had it not been redeemed.

5 Q. Who said they had to replace the money?

6 A. They need -- companies typically need cash to run  
7 their business. The more expenses they have, the more  
8 cash they need to borrow.

9 Q. And it's anticipated in the prospectus with a  
10 ceiling of how much cash they may have to outlay in any  
11 given year because of the risk associated with the  
12 selling of an estate-put, correct?

13 A. For these structures, it is correct.

14 Q. As it relates in Exhibit 11 to GMAC, on those  
15 bonds, what was their annual put limit?

16 A. Well, according to the document, our assumption  
17 was it was one percent.

18 Q. Do you know if the bonds that were redeemed as  
19 estate-puts by Mr. Caramadre and his associates were  
20 part of that tranche of bonds?

21 A. Which tranche? What are you referring to?

22 Q. The ones that I showed you? The prospectus from  
23 2005?

24 A. I have assumed they were, but I couldn't swear on  
25 it. I would assume so. I assumed they were subject to

1       this one percent limit.

2       Q.     Could have been bonds from 2003, correct?

3       A.     Could be, yes.

4       Q.     Could have been bonds from 1998?

5       A.     Could be.

6       Q.     Sir, Mr. Vilker asked you this morning about  
7       bonds, in essence, that were sold for a loss on the  
8       retail market. So if I were to buy \$100,000 worth of  
9       GMAC bonds with a 30-year maturity and two years from  
10      now I sold them, there's a possibility that I would  
11      have to sell them on the retail market for less than  
12      what I paid, correct?

13      A.     That is correct.

14      Q.     And the individuals that -- and when I say Joseph  
15      Caramadre, et al, that's because that's the phrase that  
16      you used in your writing when you were describing JAC,  
17      et al. That's Mr. Caramadre, correct? You've never  
18      met Mr. Caramadre, have you?

19      A.     No, I have not.

20      Q.     The Government told you that Mr. Caramadre had  
21      your article "Some Bonds Are Worth More Dead Than  
22      Alive" on his hard drive, correct?

23      A.     Correct.

24      Q.     When did they tell you that, sir?

25      A.     It was certainly mentioned in the document that I

1 received a few months ago, but I believe orally  
2 Mr. Vilker may have mentioned it to me earlier, but it  
3 was certainly much after the initial engagement.

4 Q. They told you they had the Defendant's -- the  
5 Defendant had your article on his computer, correct?

6 A. Correct.

7 Q. So you don't know with respect to the bonds  
8 indicated in Exhibit 11 whether any of those companies  
9 hit their put limit in the year that they were  
10 redeemed, correct?

11 A. Correct.

12 Q. In fact, do you know from your research that  
13 Mr. Caramadre and his associates actually lost money on  
14 some bond issues?

15 A. What we did see in the brokerage statement is that  
16 there were some sales at prices below the purchase.

17 Q. Did you see it anywhere else, sir?

18 A. I don't recall.

19 MR. MURPHY: One moment, please, Judge.

20 Q. So when you saw that Mr. Caramadre had lost some  
21 money with bond trading with estate-puts due to your  
22 investigation of brokerage statements, that's because  
23 Mr. Caramadre and his associates assumed a risk when  
24 they purchased the bonds, correct?

25 A. I did not pay any attention to trades related to

1 other than estate-puts. Our focus was to estimate --  
2 we were asked to estimate the damage, the extra cost to  
3 the issuers, so secondary market trading was irrelevant  
4 for our purposes.

5 Q. Well, that's where Mr. Caramadre and his  
6 associates bought the bonds, on the secondary market,  
7 right?

8 A. Yes. And as I'm saying, we did not care about  
9 sales in the secondary market.

10 Q. It was irrelevant to you?

11 A. It was irrelevant to us, yes.

12 Q. Now, when a bond comes for sale on the secondary  
13 market, the issuer has already received full face value  
14 for that bond, correct?

15 A. You mean at issuance?

16 Q. Yes.

17 A. Well, whether or not it comes up for sale on the  
18 secondary market is irrelevant. When the bond is sold,  
19 the issuer receives --

20 Q. So if the bond is sold for \$100,000, the company  
21 receives almost \$100,000 for that, right?

22 A. You mean when the bond is issued?

23 Q. When it's issued, sir, yes.

24 A. Typically on these bonds, the corporation issuing  
25 receives the full face amount, which is hundred percent

1 less of issuance fees.

2 Q. Which come out to be incidental?

3 A. Yes, it depends, but it's substantial.

4 Q. Now, when Mr. Caramadre and his associates  
5 purchase on the secondary market, they'll, according to  
6 your study, they purchased bonds that were well  
7 reduced, correct? The purchase by Mr. Caramadre with  
8 the example that Mr. Vilker gave you of a GMAC bond  
9 that you went through the brokerage account, it was a  
10 \$200,000 bond which he purchased for approximately  
11 \$120,000, correct?

12 A. That's not their estimate. Those are statements.  
13 Based on the analysis of brokerage statements, yes.

14 Q. So he bought it on the secondary market for well  
15 less than what the face value was, correct?

16 A. Yes.

17 Q. There's no crime against that, is there?

18 A. Not at all.

19 If I may just add --

20 Q. There's no question in front of you right now,  
21 sir.

22 A. Sure.

23 Q. Now, sir, on the list contained in Government's  
24 Exhibit 12, if we go down the top quarter of the page,  
25 there are two accountholders , one is named Robert J.

1 Carnevale and the other is Edward J. Hanrahan. Do you  
2 see that?

3 A. I'm sorry? What part?

4 Q. The 11th one.

5 A. Carnevale. Yes.

6 Q. So that particular item was held by Robert J.  
7 Carnevale and Edward J. Hanrahan, correct?

8 A. Correct.

9 Q. And the face amount of that instrument was just  
10 under \$1.9 million?

11 A. Yes.

12 Q. And you've determined the loss to be approximately  
13 \$375,000, correct?

14 A. Correct.

15 Q. That money didn't go to Mr. Caramadre, correct?

16 MR. VILKER: Objection, your Honor. It's asking  
17 this witness facts that first of all he has no  
18 knowledge of and seems to be getting at what the  
19 underlying scheme was. I don't think this is the  
20 hearing to determine the reason why these other  
21 accounts are part of the same scheme, and plus this  
22 witness has no knowledge one way or the other.

23 MR. MURPHY: Judge, that's precisely what I'm  
24 trying to show is that this witness has no knowledge  
25 about it, that simply they're putting in a figure of

1       \$12.4 million when it can't be attributed to  
2       Mr. Caramadre directly.

3               THE COURT: I'll allow the question for that  
4       purpose.

5               Go ahead and answer.

6       A.    Could you please repeat the question.

7       Q.    Sure. The item we just looked at it is joint  
8       owned by Mr. Carnevale and Mr. Hanrahan, correct?

9       A.    Correct.

10      Q.    Mr. Caramadre's name is not on that instrument, is  
11      it?

12      A.    No, he's not.

13      Q.    But you included a loss based on your calculations  
14      and attributed it to Mr. Caramadre and his associates,  
15      correct?

16      A.    Well, the loss is from the prospective of the  
17      corporation, how much the corporation lost as a result  
18      of the put. It has nothing to do with the holder of  
19      the bond who put the bond back.

20      Q.    Doctor, when a corporation issues a bond, when  
21      they issue that bond and it's sold, the corporation  
22      receives a hundred percent of face value of that bond,  
23      correct?

24      A.    That's correct.

25      Q.    Now, at the maturity date that corporation has to



1 pay the face value of that bond to the holder of it,  
2 correct?

3 A. That's correct.

4 Q. Okay. That corporation has a choice, depending on  
5 fluctuations of interest rate in the economy whether or  
6 not to exercise its call option to purchase that bond  
7 at face value at a time other than maturity, correct?

8 A. That's correct.

9 Q. That company also accounts for, when it sells an  
10 estate-put or a death-put bond, that company takes into  
11 account that a certain amount of bonds will be put by  
12 the holder in any calendar year, correct?

13 A. No. Some amount may be put by a holder. Not will  
14 be put by a holder.

15 Q. May be?

16 A. May be put by holder, not will be put by holder.

17 Q. They put a ceiling on it?

18 A. They put a ceiling but the ceiling is a ceiling  
19 and it is entirely possible that the amount put is  
20 considerably below the ceiling.

21 Q. In fact, the company hopes that it is put below  
22 the ceiling every year, correct?

23 A. Assuming that the bond is not selling above par,  
24 in which case --

25 Q. Well, if it was selling above par, the company

1 would call it if they could, correct?

2 A. If it's callable already. Sometimes the bond is  
3 not yet callable but it is already puttable. There's a  
4 lag. These bonds normally, I believe, become puttable  
5 one year after issuance, but the call may not be  
6 exercised for several years. So there's a period when  
7 it can be put but not called.

8 Q. Two to four years, correct?

9 A. Correct.

10 Q. In your business, you advise these companies to  
11 win, correct?

12 A. To win?

13 Q. To win.

14 A. We advise them to make the correct decision.

15 Q. To make money, correct?

16 A. They are trying to minimize their cost of  
17 borrowing. That's what debt management is, minimize  
18 the cost of borrowing.

19 Q. So these companies with your advice go out and you  
20 have nothing to do with the underwriting or the  
21 issuance of the bond or the development of the  
22 prospectus, but you have to take into account the  
23 prospectus when you advise them on debt management,  
24 don't you?

25 A. We focus on certain provisions included in the

1 prospectus that relate to, as I mentioned, refunding,  
2 calls, puts, estate-puts, sinking funds and fees  
3 associated with the issuance. That is basically our  
4 involvement in terms of assisting our clients.

5 Q. Death-puts?

6 A. That's one of the refunding options, yes. It's an  
7 option held by the investor in this case, and that has  
8 to be taken into account.

9 Q. Has to be taken into account by the issuer?

10 A. By the issuer.

11 Q. And it is taken into account by the issuer?

12 A. It is in computing the potential cost of issuance  
13 against some alternative.

14 MR. MURPHY: Judge, may I have a moment, please?

15 THE COURT: Sure.

16 (Pause.)

17 MR. MURPHY: Thank you, Judge.

18 Q. Now, Dr. Kalotay, your research for the United  
19 States Government in this particular case deals in  
20 essence with just death-put bonds, correct?

21 A. Correct.

22 Q. And CDs also?

23 A. Correct.

24 Q. Sir, where in the prospectus for the bonds that  
25 are in Government's Exhibit Number 11 does it say that

1 the issuer will replace redeemed bonds with new bonds?

2 A. It doesn't -- I did not look at prospectuses, but  
3 I would not assume that there's any reference to how  
4 the issuer raises the funds.

5 Q. Is there anything in the prospectus or anywhere  
6 that you looked as it relates to the 33 items in  
7 Government's number 11, does it say that the investor  
8 is responsible for any losses that the issuer incurred  
9 due to the estate-put provision?

10 A. I didn't look at it but not to my --

11 Q. There wouldn't be.

12 A. No.

13 Q. Why wouldn't there be, sir?

14 A. Why is what?

15 Q. There is nothing contained in the prospectus or  
16 any information that you searched when you determined  
17 the bond loss in this case does it say that the  
18 investor is responsible for any losses that the issuer  
19 incurred due to the exercise of a death-put?

20 A. Not to my knowledge, no.

21 Q. Why wouldn't there be?

22 A. There's no need for it.

23 Q. Why isn't there a need for it?

24 A. It's an option exercised by the investor and is  
25 part of the prospectus.

1 Q. So the issuer has already taken it into  
2 consideration?

3 A. It's taken into account at the time of issuance.

4 Q. Now, sir, if I can direct your attention to  
5 Government's Exhibit Number 12.

6 Do you have Number 12 in front of you,  
7 Dr. Kalotay?

8 A. Yes, I do.

9 Q. Now, if we start from the bottom, if we go to the  
10 R's or -- actually, the D's. Where did you get this  
11 list from, sir?

12 A. These are from brokerage statements.

13 Q. So the bottom of the page says "Andrew Kalotay  
14 Associates." This was produced by your firm?

15 A. Yes.

16 Q. Under your supervision?

17 A. Under my supervision, yes.

18 Q. Have you seen this document prior to today?

19 A. I believe I have, yes.

20 Q. Do you believe you have or have you, sir?

21 A. Well, I looked at a lot of these but my  
22 recollection is, again, I believe I've seen this  
23 document.

24 Q. Okay. And it says, "Loss By Accountholder" at the  
25 top of the page, correct?

1 A. Yes.

2 Q. Okay. And the first accountholder, for instance,  
3 Linda Barbeau, where is she?

4 A. What do you mean "where is she"?

5 Q. Where is she? Where is she today?

6 A. I don't know. I assume she's deceased, but I  
7 don't know.

8 Q. Okay. Where it says "Joint Accountholder" --

9 A. Yes.

10 Q. -- where is that joint holder today?

11 A. I don't know.

12 Q. Well, your firm prepared this list and on the left  
13 side it says "Accountholders," and there's multiple  
14 names, 20 plus, and then to the right there's a second  
15 column called "Joint Accountholders," and there's a  
16 corresponding name to each accountholder with a joint  
17 accountholder, correct?

18 A. Correct.

19 Q. And then there's "Brokerage"?

20 A. Yes.

21 Q. And the first one is Schwab as it relates to Linda  
22 Barbeau, and then it says "Face Amount, \$853,000,"  
23 correct?

24 A. Correct.

25 Q. Face amount of what, sir?

1 A. It's face amount of bonds held in this account.

2 Q. Okay. Do you know what type of account it is?

3 A. I do not.

4 Q. Where it says, "Loss" next to Linda Barbeau, it  
5 says \$134,000. What is that loss, sir?

6 A. That loss represents the loss to the corporations  
7 whose bonds had been held in this account and which  
8 were put back to the corporations.

9 Q. How were they put back to the corporations, sir?

10 A. Under the death-put provision.

11 Q. So in 12, then, where it says, "Loss by Account,"  
12 the accountholders, they're all dead so the joint  
13 tenant exercised the death-put?

14 A. Well, I don't know anything about the  
15 accountholders. I'm explaining that the loss is from  
16 the perspective of the corporation whose bonds were  
17 redeemed.

18 Q. And all of these bonds redeemed in Government  
19 Section 12 were redeemed under the death-put or  
20 estate-put option?

21 A. I believe so. This is based on the study of the  
22 brokerage accounts that we had received.

23 Q. Brokerage accounts that you received?

24 A. From Mr. Vilker and his colleagues. The  
25 information we received.

1 Q. Well, who gave you the information for Exhibit 12,  
2 sir?

3 A. I believe it all came from Mr. Vilker's office.

4 Q. And you used that to determine the loss?

5 A. The loss to the corporations whose bonds were  
6 redeemed under the death-put provision.

7 Q. Okay. Well, I mean, looking down in the "R"  
8 column, Edwin Rodriguez, you have him down as a loss,  
9 correct?

10 A. Correct.

11 Q. Do you know why that is, sir?

12 A. I do not know.

13 Q. You see Mr. Caramadre in Court today, don't you?

14 A. Yes.

15 Q. Well, where is Mr. Rodriguez?

16 A. I don't know.

17 Q. Is he dead?

18 A. I assume he's dead.

19 MR. MURPHY: He's alive, sir. He testified at  
20 trial.

21 THE COURT: Mr. Murphy, do you want some time to  
22 consult with Mr. Caramadre?

23 MR. MURPHY: One minute, please, Judge.

24 THE COURT: Sure.

25 Actually I see that it's one o'clock. Maybe



1 we'll break now for lunch, and we'll resume, we'll  
2 shoot for 1:45. The Court will be in recess.

3 And, Doctor, you'll still be under oath.

4 (Lunch recess.)

5 THE COURT: Good afternoon, everyone.

6 Doctor, you are still under oath. I would  
7 remind you you're still under cross-examination.

8 Mr. Murphy?

9 MR. MURPHY: Judge, I have about five more  
10 minutes.

11 THE COURT: Okay.

12 Q. Dr. Kalotay, do you still have the red book in  
13 front of you?

14 A. Yes, I do.

15 Q. Sir, if you can turn to Exhibit Number 11, and  
16 that's the table that your company has labeled as "Loss  
17 By Issuer"?

18 A. Yes, it is.

19 Q. Starting from the top, the first one, the first  
20 issuer is General Motors Acceptance Corporation?

21 A. Yes, it is.

22 Q. Did GMAC send you information concerning their  
23 alleged loss for your calculation?

24 A. No, they did not.

25 Q. The second one, did Country Wide Financial send

1       you information concerning their alleged loss for your  
2       calculation?

3       A.     No.

4       Q.     Did Bear Stearns Company, Incorporated send you  
5       information concerning their alleged loss?

6       A.     Nobody did.

7       Q.     So nobody listed on Table 1 provided you with any  
8       information concerning their loss?

9       A.     Nobody has. Nobody did.

10      Q.     So you don't know if any of those companies listed  
11     in Exhibit 11 replaced the money that they had to use  
12     to redeem the estate-put, correct? You're just  
13     assuming?

14      A.     I don't know how they funded the estate-put.

15      Q.     Doctor, you calculated the loss based on the time  
16     of redemption that utilized the estate-put through the  
17     maturity date of the bond, correct?

18      A.     That's correct. I considered the expected cost  
19     because I'm not sure, as I indicated before, what is  
20     going to happen to this bond. There could be more  
21     estate-puts, there could be calls depending on what  
22     interest rates do.

23      Q.     Right. So your calculation is hypothetical?

24      A.     It's in accordance with standard bond valuation  
25     principles.

1 Q. But you don't know what was going to happen from  
2 the time of redemption of the estate-put bond through  
3 maturity, correct?

4 A. That is correct. I based my assumptions on the  
5 prevailing interest rates.

6 MR. MURPHY: Nothing further, your Honor.

7 THE COURT: Mr. Thompson.

8 MR. THOMPSON: Thank you, your Honor.

9 **CROSS-EXAMINATION BY MR. THOMPSON**

10 Q. Dr. Katolay --

11 A. Kalotay.

12 Q. I apologize, sir.

13 A. That's no problem.

14 Q. -- you just testified, I think, in answer to the  
15 last question or the second to last question that your  
16 calculations were based on standard bond valuation  
17 principles; is that correct?

18 A. That is correct.

19 Q. And that's essentially what you specialize in?

20 A. That is correct.

21 Q. Bond valuation.

22 You made a distinction when Mr. Vilker was  
23 questioning you, he was asking you, you were hired to  
24 calculate a loss amount to the corporation and your  
25 answer to that would be, was: It's not that simple. I

1       calculated the value of the bonds and therefore the  
2       money that would -- how much it would cost the  
3       corporation to borrow that money. Correct?

4       A. I believe more precisely I said I calculated the  
5       expected cost of the debt or the expected cost of the  
6       liability. I think those were my --

7       Q. And your testimony to that is because that's not  
8       the same thing as loss, correct?

9       A. Well, if I may just define what I mean by "loss."

10      Q. Of course.

11      A. All right. So the loss is the difference between  
12      two numbers, one is this number that we have been --  
13      you just mentioned, which is the expected cost of  
14      servicing the debt over its life, taking into account  
15      various complications arising from puts and calls  
16      versus a cash payment today in the par value. A  
17      difference between those two numbers is what really we  
18      call the loss. That's our definition.

19      Q. All right. So I may have a poor understanding of  
20      what you're saying then, because my sense of your  
21      testimony was that you are not using the cost of a cash  
22      payment today. You are using the cash payment plus any  
23      borrowing costs that come along with that cash payment  
24      if you borrow that money, right?

25      A. Let me clarify. If you make \$1,000 cash payment

1 today, the cost of that payment today is \$1,000.

2 That's what it is.

3 Q. I agree.

4 A. That's what it costs -- that's the cost to  
5 repurchase something which is being put back where you  
6 have to pay \$1,000. The question is what if you don't  
7 pay it back? What is the cost of leaving this bond  
8 outstanding and observing what might happen to it over  
9 time and try to value that. And that's the cost of  
10 debt assuming that it is not being put back today, and  
11 the difference between those two numbers is what we  
12 call the loss to the issuer.

13 Q. Exhibit 10 is your company's report on the  
14 estimate of losses, correct?

15 A. Yes.

16 Q. And on page two of Exhibit 10, there's a paragraph  
17 entitled "Determining the Loss to Issuers," correct?

18 A. Yes.

19 Q. And it says: "The main challenge in estimating  
20 the loss to issuers is determining what the values of  
21 the bonds were." Correct?

22 A. Yes.

23 Q. Parentheses, "in terms of their replacement cost"?

24 A. Yes. And replacement cost is not defined very  
25 accurately but that's what it says, yes.

1 Q. Okay. Well, then you go on. The very next  
2 sentence is: "These values depend on the issuer's  
3 prevailing borrowing costs because that is how the  
4 issuer has to raise the funds required to pay off the  
5 bondholder." Right?

6 A. That's correct.

7 Q. So the main challenge, you say in this paragraph,  
8 is determining what the replacement cost is, right?

9 A. The main challenge is to determine the cost of  
10 leaving the bond outstanding but that cost is  
11 determined taking into account the cost of replacement,  
12 the cost of raising that today.

13 Q. Right.

14 A. That's what it is. It's a little confusing, I  
15 realize.

16 Q. It is. It's very confusing. Because you're  
17 trying to calculate what the cost to a company is to  
18 raise that amount of money today to repay the bond,  
19 right?

20 A. Actually, what we're focusing on here, and maybe  
21 it's best if you look at the following page, page C, on  
22 the third box where we refer to this replacement cost  
23 as the fair value of the bond. It's probably more  
24 helpful because it's less confusing, the fair value of  
25 the bond.

1 Q. Let me ask you what bond you're talking about, the  
2 bond that just got redeemed or a new bond that has to  
3 be issued?

4 A. No. No. The bond that has just gotten redeemed,  
5 what it would cost if it had not been redeemed. That's  
6 the precise statement. What would it cost had it not  
7 been redeemed.

8 Q. Can we go back to page two, that sentence I was  
9 showing you.

10 A. Yes, please.

11 Q. Why does it say that: "The issuers prevailing  
12 borrowing costs is essential because that is how the  
13 issuer has to raise the funds"?

14 A. Right. Perhaps saying that that is how they must  
15 raise the funds is a bit of an overstatement that for  
16 analytical purpose you assume that an issuer and his  
17 capital, and I don't mean to get into too much  
18 complexity, it has some equity and it has some debt.  
19 And you assume that the amount of debt, more precisely  
20 what we call the equity-to-debt ratio is determined.

21 So if you refund -- if some of the debt  
22 disappears for whatever reason, then presumably,  
23 eventually it will be replaced by debt.

24 Q. Why would you presume that?

25 A. That's a standard corporate finance assumption and

1 we can talk about that. That has to do with capital  
2 structure and other complications. I'm happy to --

3 Q. We have a big list of companies here, right?  
4 Let's go to Exhibit 11, if we could.

5 GMAC, that's a business, right?

6 A. Hang on. Exhibit 11?

7 Q. Exhibit 11. Yeah. I'm just picking the top name  
8 again, GMAC?

9 A. Sure.

10 Q. That's a corporation, right?

11 A. It's a corporation, yes.

12 Q. And the corporation's job and their responsibility  
13 to the shareholders is to make money, right?

14 A. Correct.

15 Q. And they don't make money by issuing debt and just  
16 issuing debt and delaying repaying it, do they?

17 A. They do not.

18 Q. They earn money by providing a service to someone,  
19 correct?

20 A. That's correct.

21 Q. Okay. Caterpillar is on there, too.

22 A. Can we stay with GMAC? It was a finance company  
23 and so they would say for the sake of argument that we  
24 finance this company, this 90 percent debt and 10  
25 percent equity, just for the sake of argument. So if



1 some of the debt disappears for whatever reason,  
2 eventually it would be replaced to maintain that --

3 Q. That's how they choose to do it.

4 A. That's how they normally would do it.

5 Q. That's if they choose that they want to keep that  
6 ratio, right?

7 A. That is correct. And that's the basic assumption  
8 that I make in the absence of --

9 Q. Okay.

10 A. That's a standard finance assumption.

11 Q. It's a standard finance assumption that a  
12 company's debt equity model is going to stay the same  
13 throughout time?

14 A. No. But given that there's a debt-to-equity  
15 ratio, you're not going to change it just because some  
16 transaction occurred on this level.

17 Q. No. I would agree with that. I think you already  
18 testified this is up to a \$15 billion debt issue and at  
19 the most here we're talking about what you call a loss  
20 of \$4.7 million, right?

21 A. Right.

22 Q. That's not even a blip on the screen for GMAC, is  
23 it?

24 A. Well, it's not even the loss. It's the amount  
25 that they have to pay -- they have to somehow pay \$10

1 million, and that's the amount of money that somehow  
2 they have to come up with.

3 Q. You're saying some day -- based on your  
4 understanding of their ratios and standard finance  
5 practice, you're saying some day they will have to  
6 borrow money to repay that?

7 A. Some other debt issue may have to be increased by  
8 this amount.

9 Q. May be, right?

10 A. May be.

11 Q. When will they borrow that money?

12 A. Well, a finance company such as GMAC was in the  
13 market almost continuously.

14 Q. But you're saying some day they might have to  
15 adjust their books, some day they're going to have to  
16 borrow another \$10.8 million. When do they have to  
17 borrow that?

18 A. I would imagine that in the case of a company like  
19 GMAC under normal conditions that extra \$10 million  
20 would be added to the next issue, which is in a few  
21 weeks. Within days of --

22 Q. Couldn't they just pay with profits they have from  
23 their regular business?

24 A. Well, it's not so much profits. Would they have  
25 cash.

1 Q. Yeah. Cash.

2 A. They may have cash but even very large companies  
3 typically have very little cash; but even if they do,  
4 they have that cash for some particular purpose. So if  
5 it is paid to service, to retire bonds under the death  
6 provision, they would have to raise some money to  
7 replenish the cash.

8 Q. You're saying based on their model that they want  
9 to mostly have their capital by borrowing, that some  
10 day they're going to have to borrow this money?

11 A. Exactly. It's no different from saying if I have  
12 a mortgage and suddenly I have to repay it and it's a  
13 five percent mortgage and now I have to repay it. Now,  
14 I don't have the cash. I may have the cash but --

15 Q. What if you had the cash? Would you make a  
16 different -- as an advisor, a bond advisor, would you  
17 make a different recommendation about repaying the  
18 mortgage based on whether the person you're consulting  
19 with had the cash or did not have the cash?

20 A. I would look at -- when we talk about the  
21 mortgage, if you do have cash, then what you have to  
22 take into account is alternative investment  
23 opportunities.

24 Q. Right.

25 A. And I would imagine, I think that under these

1 conditions that we have here, the value of the bond  
2 that you are repaying is well under a hundred, well  
3 under par. So I would imagine that if I had cash, I  
4 would much rather invest it in something whose value is  
5 at par. I'm not getting my money's worth by buying  
6 back at par something whose value is considerably below  
7 par.

8 Q. You indicated that there's a higher underwriting  
9 fee for death-put bonds; is that correct?

10 A. That is correct. That has to do with the retail  
11 structure of these bonds. They are in very small  
12 denominations and sold in small amounts.

13 Q. Because there's a higher underwriting fee, does  
14 that enter your loss calculation?

15 A. No, it didn't enter in this calculation. That  
16 becomes a factor when you decide between issuing bonds  
17 with this feature versus issuing institutional bonds  
18 where the underwriting fee is much lower.

19 Q. So when you did your loss calculation, did you  
20 calculate with the lowest possible fees?

21 A. In our loss calculation, the fees were not taken  
22 into account at all. Reissuance fees were not  
23 considered.

24 Q. That's not part of the issuer's prevailing  
25 borrowing costs that you talk about?

1 A. No. We did not take that explicitly into account.

2 Q. What do you mean "explicitly"?

3 A. You can say what would it cost me to issue, for  
4 the sake of argument, 10-year bonds.

5 So as an example, you can ask the question what  
6 would it cost for a particular corporation to issue  
7 10-year bonds. So you could say, well, the investors  
8 demand four percent so you might say the borrowing cost  
9 for ten years is four percent; but then an alternative  
10 way of doing it you say, yes, the investors demand four  
11 percent but I have to pay as an issuer two percent  
12 underwriting fee, and now my cost is actually higher  
13 than what the borrowers receive because of this  
14 transaction cost. We did not take into account the  
15 additional issuance cost.

16 Q. Mr. Murphy reviewed with you part of a prospectus  
17 for the GMAC bonds. Do you remember that?

18 A. Yes.

19 Q. And that prospectus included the so-called  
20 estate-put or the death-put, correct?

21 A. Yes.

22 Q. And that option is something that GMAC chose to  
23 put in as a feature of the bond, correct?

24 A. Correct.

25 Q. And that's a feature of the bond designed to make

1 it more attractive as an investment for retail buyers?

2 A. Correct.

3 Q. If a bond has a feature that makes it more  
4 attractive to retail buyers, it is worth more in the  
5 market, correct?

6 A. Retail buyers will pay more for it, correct.

7 Q. So when GMAC issued that bond, they made more  
8 money, they were able to collect more money because of  
9 that option in the bond, correct?

10 A. Well, if I may just put it slightly differently.  
11 They were able to get away with a somewhat lower  
12 interest rate.

13 Q. Yes.

14 A. It's equivalent to what you said.

15 Q. There's give and take, is there not?

16 A. Yes.

17 Q. Because they put in a feature that is better for  
18 retail investors, they got a provision that was maybe  
19 more favorable to them, correct?

20 A. Correct.

21 Q. So when they issued the bonds, they got something  
22 in return for putting that death-put option in,  
23 correct?

24 A. They got a lower interest rate, nominal interest  
25 rate, which presumably was sufficiently lower that even

1 after taking into account the death-put provision and  
2 the higher issuance costs, it was still favorable to  
3 issuing standard institutional bonds.

4 Q. Right. They made that calculation at the time of  
5 issuance it was more favorable to them to include that  
6 option, right?

7 A. Yes.

8 Q. So therefore, at the time of issuance is when they  
9 collected their benefit from including that option,  
10 right?

11 A. Well, not exactly, if I might say, because keep in  
12 mind that, again, you have to look at various interest  
13 rate scenarios over the life of the bond. And under  
14 some scenarios, this, including issuing these bonds  
15 with the death provision would be better than issuing  
16 institutional bonds; under some other scenarios it  
17 would be worse. But when you average out all these  
18 things, odds would favor issuing in this case. So  
19 that's odds would favor, but you don't collect anything  
20 at the time. It's playing the odds.

21 Q. You collect the money from selling the bonds.  
22 GMAC actually collected that money, right?

23 A. They collected money, but if you just look at the  
24 money, they actually up front they got less money than  
25 if they issued institutional bonds because they have to

1 pay more fees. So the benefit does not come at the  
2 time of selling the bond. The benefit comes over time  
3 when they pay lower interest rate on these bonds.

4 Q. I don't think that's correct. I think you're  
5 adding an extra variable there. When you testified a  
6 minute ago you said that there was a tradeoff, and the  
7 tradeoff to the investor was that they get the  
8 death-put. And the tradeoff to the corporation was  
9 that they have to pay less in interest, correct?

10 A. That is correct.

11 Q. There was no tradeoff to the price of the issuance  
12 of the bond.

13 A. My point is about you use the word "benefit."  
14 What is the benefit? It's like having one mortgage  
15 with some feature over another mortgage with another  
16 feature and one pays higher than the other. The  
17 benefit doesn't come when you enter into the contract.  
18 The benefit comes over time when you're paying less on  
19 one structure than you pay on another. So I would not  
20 say that they collected any benefit at the time of  
21 issuance.

22 Q. Let me give you a for-example then. Like you  
23 said, we're going to have two different mortgages or  
24 two different bond issues, right?

25 Bond issue number one has an annual interest



1 rate of five percent, let's say. Bond issue number two  
2 has an annual interest rate of five percent. Okay?  
3 Identical so far, right? Bond issue number two has a  
4 death-put option, okay? Bond issue number one does  
5 not. Which one will be easier to sell for GMAC to  
6 raise their money, to raise their capital.

7 A. Clearly it would be the one with the death-put  
8 provision.

9 Q. Right. Clearly, B would be easier. Because it  
10 has a death-put, they will have an easier time raising  
11 their capital when they issue the bond, right? They  
12 will have an easier time raising their money, right?

13 A. Well, from retail investors. But if you look at  
14 the piece that I published, I made it very clear that  
15 there's a substantial difference between the retail  
16 bond interest rate and the institutional. And as I  
17 explained in my article, I was stunned to see this big  
18 difference.

19 Q. It doesn't make sense to you?

20 A. Well, it did make sense once I understood what was  
21 going on.

22 Q. The corporations are making that decision to put  
23 in that feature because it benefits them, right?

24 A. Because it benefits them.

25 Q. And they get the benefit, part of the benefit up

1 front because they have an easier time raising the  
2 money up front?

3 A. Well, normally, when we talk about "benefit," we  
4 mean somehow cash flows. To me everything here boils  
5 down to cash payment. And up front you're not  
6 getting --

7 Q. Two bonds with an identical interest rate and one  
8 has a death-put and one doesn't, the one with the  
9 death-put is more easily sellable for them, right?

10 A. But that's not a fair comparison because that's  
11 not what they are facing. They are facing two  
12 alternatives. One is to issue, to sell a bond with a  
13 five percent with a death-put provision or sell another  
14 bond, for the sake of argument, that has a  
15 five-and-a-half percent bond without a death-put  
16 provision. Those are the alternatives that they are  
17 looking at, not one without and one with.

18 Q. My point is having the death-put provision in  
19 there helps them raise money up front. There's other  
20 ways they could try to raise money up front, but that's  
21 one that they choose to include because it helps them  
22 sell the bonds, right?

23 A. That's correct.

24 Q. Okay.

25 A. But the benefit is not up front. The benefit

1 comes over time. This is the only point I would like  
2 to make.

3 Q. Okay. The point I would like to make is that if  
4 they have an easier time selling it, that means they  
5 have an easier time collecting the money for it, right?

6 A. I mean, that's a tautology that if something is  
7 easier to sell, it's easier to sell. It's a tautology.

8 Q. Right.

9 A. I can't comment on it.

10 Q. You can agree? It's a tautology. You can agree.

11 A. I can agree.

12 Q. Right?

13 A. I agree.

14 Q. You consult companies in the structure of the  
15 their bonds, correct?

16 A. Yes.

17 Q. And sometimes in that consultation it turns out  
18 that issuing a bond is not the best way for them to  
19 raise money, correct?

20 A. Issuing a particular structure may not be the  
21 best.

22 Q. But always issuing a bond is the answer?

23 A. Well, normally, I'm involved only in the issuance  
24 of bonds. There could be occasionally times when the  
25 market is in turmoil for short periods and the

1 recommendation then would be stay out of the market  
2 until it settles down.

3 Q. You indicated earlier, I believe, that to estimate  
4 the prevailing rates for these companies, you did it  
5 based on some Standard & Poor's credit ratings at the  
6 time?

7 A. Not credit ratings. They actually put out credit  
8 spread information. That's not a rating. Which is  
9 derived from prices of bonds that they somehow obtain  
10 and analyze.

11 Q. They analyze those from the market overall?

12 A. From market prices, yes.

13 Q. And you analyze -- I think you said you used two  
14 different classes of that analysis, correct?

15 A. Correct.

16 Q. So you didn't figure out or find out for each  
17 individual company what their finance curve was, right?

18 A. That is correct. It was a rough estimate for two  
19 different classes only.

20 Q. Okay. You didn't contact each company to find  
21 out --

22 A. We did not.

23 Q. -- their curve?

24 A. No, we did not.

25 Q. Did you contact each company to find out how they

1 repaid the money?

2 A. We did not contact any company, and we did not  
3 look at how they replace debt. That kind of analysis  
4 could have been done, but I did not think it was  
5 warranted under the circumstances.

6 Q. A company has to pay taxes every year, correct?

7 A. Correct.

8 Q. And for that reason, for accounting purposes and  
9 tax-paying purposes, in any given year a company would  
10 rather have high expenses and lower profits for tax  
11 purposes, correct?

12 A. For --

13 Q. For the purpose of paying taxes?

14 A. Particularly for taxes, yes.

15 Q. Right. It's generally established in the finance  
16 world and in the corporate world that you'd rather --  
17 if you have debts, you'd like to move them up as  
18 quickly as possible; and if you have profits, you'd  
19 like to push them down the road all for tax purposes?

20 A. If you're talking strictly about taxes that is  
21 true.

22 Q. I am.

23 A. At the same time, companies want to issue high  
24 earnings, and earnings and taxes tend to go in opposite  
25 directions. So you have to be very gingerly when you

1 make a statement about taxes and disregard accounting  
2 considerations.

3 Q. Yes. But right now I'm talking about taxes,  
4 right?

5 A. If you talk strictly about taxes and disregard  
6 accounting, correct. But can you disregard accounting?  
7 It's questionable. All right.

8 Q. So there can be a benefit to these corporations  
9 for paying back these bonds sooner, correct, for tax  
10 purposes?

11 A. Could you explain where the tax benefit comes  
12 from?

13 Q. When they have to repay a bond today rather than  
14 in 20 years from now, they're able to show an expense  
15 of say \$100,000 today rather than putting that expense  
16 off 20 years, right?

17 A. That's not an expense.

18 Q. What is it?

19 A. That's a principal payment. It's not interest.  
20 Interest is taxes. Principal is principal. Principal  
21 you can't deduct. You could deduct principal if it was  
22 repaid -- there would be tax ramifications if you paid  
23 less or more than the so-called tax basis or par. But  
24 if you're repaying something that you're showing on  
25 your books at hundred and you paid a hundred for it

1       there's no tax ramifications.

2       **Q.**   There's an accounting ramification, though,  
3       employing that expense down the road off of your books,  
4       correct?

5       **A.**   Well, when you say "accounting ramification," what  
6       exactly are you referring to?

7       **Q.**   You referred to we have to keep in mind  
8       accounting. The accountants, it's important to them  
9       how much debt is on the company's books, right?

10      **A.**   They rebooked it.

11      **Q.**   It matters in accounting how much debt is on the  
12      books, right?

13      **A.**   Right.

14      **Q.**   Okay. So if a company repays these bonds earlier,  
15      that wipes some of their debt off the books, right?

16      **A.**   If they do not replace the bond, they will be  
17      showing less debt on their books.

18      **Q.**   Right. Well, they don't replace it instantly,  
19      certainly. I understand hypothetically you're saying  
20      that some day they might, but certainly the day they  
21      repay it they don't reissue it right then, right?

22      **A.**   That's correct. They have less debt and they have  
23      less cash.

24      **Q.**   So there's some benefit to them on the accounting  
25      side in that they have less debt?

1       A.    I'm sorry. I really don't understand what  
2       benefits you're referring to.

3       Q.    If a company has less debt, is it easier for them  
4       to borrow money? Do they have better credit if they  
5       have less debt?

6       A.    That's correct.

7       Q.    Okay. So there's a benefit, right?

8       A.    But if they have less cash, what does that do? If  
9       a company has a lot of cash, it makes it easier for  
10      them to borrow, too.

11      Q.    So you're saying these companies have the cash  
12      available to make this repayment?

13      A.    All I'm saying is that you have to look at both  
14      sides of the balance sheet. That's all I'm saying.

15      Q.    Right. But you're saying now they're down cash.  
16      Before you were saying they have to borrow the money  
17      for this cash. Now they have the cash?

18      A.    Well, that was your statement, that what if I  
19      replace cash. I thought that was your assertion, what  
20      happens if you use cash.

21      Q.    Right.

22      A.    Well, I'm picking up on what you said. And if you  
23      use cash, you'll have less cash. That's all I'm  
24      saying.

25      Q.    Okay. You said that, obviously we've talked a



1 couple times, you represented or you consult for the  
2 Tennessee Valley Authority?

3 A. Yes.

4 Q. And I think you said that it was you that actually  
5 pointed out to them what had happened in this case?

6 A. Yes.

7 Q. Okay. So before you pointed that out to them,  
8 they were not aware that they had theoretically lost  
9 money?

10 A. They did not know about this.

11 Q. So they hadn't issued any extra bonds, right,  
12 based on this?

13 A. Oh, you mean all these puts? I'm sure they did  
14 not.

15 Q. Exhibit number 11 is entitled "Table 1, Loss By  
16 Issuer," right?

17 A. Yes.

18 Q. Would it be more accurate to entitle that "Loss By  
19 Issuer If They Reissued Bonds To Pay This Debt"? Would  
20 that be more or less accurate?

21 A. I don't believe you need that qualification.

22 Q. I'm not asking whether you need it. Do you think  
23 it would be more accurate?

24 A. I don't believe so. Again, let me tell you why.  
25 Because the cost of the outstanding bond, the cost of

1 the liability is computed taking into account the  
2 issuer's current yield curve, current borrowing rates  
3 because that is a standard way of quantifying the cost  
4 of a liability. It's no different from looking at a  
5 pension fund and saying, I have all these obligations  
6 going out in the future and I have to make all these  
7 payments, what is the cost in terms of current rate,  
8 present value of this team of payments. So that's all  
9 we're doing here and we really do not get into how you  
10 are replacing it, although the implicit assumption is,  
11 and explicit sometimes, is that, oh, yeah, ultimately  
12 you're going to be issuing more debt.

13 Q. I mean, that is the explicit assumption.

14 A. It is. But kind of tangential to the issue is,  
15 the main point is what is the cost of this liability.  
16 And as we have discussed a number of times, if the  
17 interest rate on this liability is below prevailing  
18 borrowing rates, the cost of this liability is going to  
19 be below a hundred. And if I have to pay a hundred for  
20 it, by hook or by crook, I'm paying more for it than  
21 what it would cost me to keep this liability alive.

22 Q. Do assumptions about interest rates over time  
23 factor into your valuation of the bond?

24 A. Yes.

25 Q. Okay. And so a bond that matures in 30 years is

1 more difficult to value, other things being equal, than  
2 a bond that matures in 10 years?

3 A. It's not more difficult to value for the computer.  
4 It's the same amount of growth. What makes the  
5 valuation difficult, and again I am repeating myself,  
6 is that you have to take into account that these bonds  
7 could be put any time between now and maturity. And if  
8 rates stay where they are or if rates are above the  
9 coupon rate, we assumed that the bonds would be put,  
10 that rate is the value of these bonds, the cost of  
11 servicing these bonds to the issuer and it reduces what  
12 we call the loss.

13 Q. So when you're calculating what you call the loss,  
14 you do have to make certain assumptions about interest  
15 rates in the future?

16 A. We make some assumptions, yes. And the  
17 assumptions again are standard assumptions. I'll be  
18 happy to elaborate, if you'd like.

19 Q. They may be standard, but they're still  
20 assumptions, right?

21 A. They're assumptions.

22 MR. THOMPSON: Okay. May I have one moment,  
23 please, your Honor?

24 THE COURT: Certainly.

25 (Pause.)

1 Q. Sir, are you familiar with the fact that -- and  
2 again, we're going to use the GMAC bonds just because  
3 that's what we've been mostly talking about, that's  
4 again at the top of Exhibit 11, today are trading for  
5 above par value?

6 A. I was not, but I was under the impression that  
7 GMAC was gone. I didn't even realize. I thought they  
8 became Allied Finance or Allied Bank or whatever. Am I  
9 wrong on that?

10 MR. CARAMADRE: It's the same parent company.

11 Q. Is the name GMAC gone but there's the same parent  
12 company to it?

13 A. I don't know enough about the corporate structure  
14 I'm afraid.

15 Q. If a bond was trading for more than par value  
16 today, is it possible that that corporation actually  
17 saved money by paying off this debt earlier?

18 A. With perfect hindsight, everything is possible in  
19 general.

20 Q. We're trying to assess the loss today. So we do  
21 actually have the benefit of hindsight. If these bonds  
22 are trading for above par value, would these companies  
23 actually today have saved money by paying off these  
24 bonds in 2008, 2009?

25 A. I cannot -- I have not thought about this but

1       presumably --

2       Q.     They would, right?

3       A.     It's possible. I mean, I think CIT is here, and I  
4       believe CIT has just come out of bankruptcy. I'm not  
5       familiar with exactly what happened to the bonds but --

6       Q.     I'm just saying generally for any of these, if  
7       it's today trading for higher than par value --

8       A.     If rates go down, prices go up and --

9       Q.     It was better to pay it off back then?

10      A.     I wouldn't go as far as it was better then because  
11      the moment they pay them off -- again, if you go back  
12      to my basic premise about funding it, just think about  
13      it, so they had five percent bonds and they had to  
14      replace them with let's say eight percent bonds, so  
15      between then and now they have been paying more  
16      interest, similar to the mortgage example that I  
17      mentioned.

18             MR. THOMPSON: Okay. Thank you.

19             THE WITNESS: Thank you.

20             THE COURT: Mr. Murphy, do you want to move  
21      Exhibit B full?

22             MR. MURPHY: Yes, your Honor.

23             THE COURT: Any objection?

24             MR. VILKER: No objection.

25             THE COURT: All right. Exhibit B will be

1 received full.

2 (Defendant's Exhibit B admitted in full.)

3 THE COURT: Let me ask whether -- Mr. Caramadre,  
4 do you have questions for additional cross-examination  
5 on matters that are not already covered by the  
6 examination that's already been conducted?

7 MR. CARAMADRE: No, I'm fine, your Honor. Thank  
8 you.

9 THE COURT: All right.

10 Redirect, Mr. Vilker.

11 **REDIRECT EXAMINATION BY MR. VILKER**

12 Q. Good afternoon, Dr. Kalotay.

13 Dr. Kalotay, a couple of times on  
14 cross-examination you referred to a couple of  
15 individuals in your office, Kalotay and Associates, who  
16 were working with you on this project. And I believe  
17 you stated that they were the ones who crunched the  
18 numbers. Can you state again who these individuals  
19 were.

20 A. Yes. One of them is Leslie Abreo, and Leslie is a  
21 man, A-B-R-E-O; and the other is Radek, R-A-D-E-K,  
22 Wyrwas, W-Y-R-W-A-S.

23 Q. And what is their background?

24 A. Leslie Abreo was a student of mine when I ran the  
25 Financial Engineering Program at Polytechnic University

1 from I believe '95 to '97. And I think Leslie has an  
2 undergraduate and master's degree, I believe, in  
3 mathematics and degree in financial engineering. He's  
4 been with me for over ten years.

5 Q. What about Radek?

6 A. Radek is a more recent arrival. He has a degree  
7 in economics from Baruch College and he joined us about  
8 a year-and-a-half ago.

9 Q. So when you say that they were the ones who  
10 crunched the numbers here, what do you mean by that?

11 A. They looked at the information that we received  
12 from you, and they put it on the computer. They did  
13 the analysis in terms of -- they obtained these credit  
14 spread curves from Standard & Poor's, and they  
15 collected the Treasury rates for the individual dates  
16 that we needed for analyzing these bonds. They used  
17 the computer to do the calculations.

18 Q. Were you supervising them as they were doing this  
19 project?

20 A. Absolutely. I mean, I told them what to do, but I  
21 did not actually go to the computer.

22 Q. So they're the ones that went out and typed the  
23 information to the computer?

24 A. Yes.

25 Q. But the process by which you arrived at your

1 conclusions was your own process?

2 A. Yes. And the methodology is the methodology that  
3 I requested.

4 Q. Now, there were some questions that you were asked  
5 before about the CDs. What's the distinction between a  
6 CD with an estate-put feature and a bond with an  
7 estate-put feature?

8 A. Well, a bond is a security. It has a CUSIP  
9 number. It trades -- CDs in the traditional form were  
10 very simple. They were just bank deposits. Over time,  
11 they have become more complicated. So in the old days  
12 a CD would typically be less than a year. I understand  
13 that today you have CDs that go on for five years and  
14 then they made them more complicated by adding call  
15 options to them and other features.

16 Q. Well, for purposes of the analysis that you did,  
17 was there a distinction in terms of determining the  
18 loss to a company if it issued a CD with a death-put  
19 feature as opposed to a bond?

20 A. Not really. It's all cash flows.

21 Q. These companies would still need to replace the  
22 funds?

23 A. Yes.

24 Q. There were some questions about the estate-put  
25 limits. And I believe you saw a prospectus which



1 indicated there was a one percent limit and that would  
2 indicate that if it was a \$15 million bond that up to,  
3 and correct me if I'm wrong, was 1.5 million --

4 A. No. No. Half a million.

5 Q. Half a million?

6 A. \$15 million bond? One percent --

7 Q. That's why you have the math degree and I have the  
8 law degree. So up to a half million dollars could --  
9 is subject to that maximum, correct?

10 A. Yes.

11 Q. Is the maximum in your experience -- first of all,  
12 is that maximum in the discretion of the issuing  
13 company?

14 A. The issuing company is obliged, I believe, to pay  
15 up to that one percent if bonds are actually put. As a  
16 practical matter, if more than one percent is put, they  
17 may choose to also honor those. The alternative is to  
18 put these bonds in a queue. That's my understanding.

19 Q. Well, do you know in practice if these companies  
20 were honoring the puts that went beyond the potential  
21 cap in the prospectus?

22 A. I do not know, but one observation I'd like to  
23 make is that if you look at the interest rates in the  
24 last 20 or so years, by and large rates have been  
25 coming down so what has dominated the management of

1 these bonds has been not the puts but the calls because  
2 the issuers were more often than not able to call these  
3 bonds after three or four years and refund them.

4 So the puts have been, I think, until '08, '09  
5 have been relatively rare.

6 Q. But getting back to your analysis that you did,  
7 did the fact that some of these or many of these bonds  
8 had an annual cap in the prospectus, was that of any  
9 significance at all to the mathematical computation you  
10 had to perform?

11 A. No. And that one percent comes in going forward  
12 actually and assuming that if interest rates remain  
13 high, the one percent of the bonds would actually be  
14 put. As a practical matter, it may be less than one  
15 percent, in which case the cost of the debt would be  
16 lower than predicted by the model and the loss would be  
17 also larger.

18 Q. Okay. So the bottom line with all that is that  
19 the fact that these bonds had a cap in the prospectus  
20 that the companies would not be obligated to redeem the  
21 bonds beyond a certain amount, that had no effect on  
22 the loss value to these corporations of having to pay  
23 this money early?

24 A. No. We just assume that in the future, if  
25 warranted, one percent of the bonds would be put. If

1 warranted.

2 Q. Now, you were asked also about these different  
3 prospectuses and they go from cradle to grave with  
4 these bonds I believe was the question and the answer,  
5 and you indicated you hadn't reviewed the prospectuses?

6 A. No. Typically, when I look at a prospectus, and I  
7 do look at prospectuses, but I immediately go to two or  
8 three pages that describe call options, if any; put  
9 options, if any, for estate-put; and sinking fund  
10 provisions. Those are the so-called embedded options  
11 in a bond and that's, for my quantitative purposes,  
12 that's all I focus on.

13 Q. Okay. The work that you did on this particular  
14 case, was there anything in these prospectuses that was  
15 relevant to your analysis of the loss value of the  
16 funds by the corporations by having to pay back these  
17 bonds early?

18 MR. THOMPSON: Objection, your Honor. Fact not  
19 in evidence. He didn't look at the prospectuses.

20 A. I did not look at the prospectuses.

21 THE COURT: Sustained.

22 Q. Why did you not look at the prospectuses?

23 A. I just didn't think I needed to. We had the terms  
24 of the bonds. We had the bond database so we did not  
25 need it.

1 Q. You were asked about the transaction costs of  
2 these estate-put bonds, and you indicated that they  
3 were higher. And I believe Mr. Thompson just asked you  
4 if that was a factor that you took into account that to  
5 reissue new bonds they would have additional increased  
6 transaction costs. And I believe you testified that  
7 that was something that you didn't include in the loss  
8 totals?

9 A. No. That is correct. We did not consider  
10 transaction, transaction costs coming at the time of  
11 issuance in terms of choosing between alternatives. In  
12 this case, we don't assume that the replacement bond is  
13 going to be another bond with an estate-put. It could  
14 be any bond.

15 Q. When these corporations have to pay back in the  
16 example we were talking about that \$200,000 General  
17 Motors bonds, the corporations have to raise that money  
18 through the issuance of new bonds. So whatever bonds  
19 they may be, those bonds will have transactions costs?

20 A. That's right.

21 Q. Underwriting fees and lawyer fees and what have  
22 you, right?

23 A. That's correct.

24 Q. But those fees, even though they're actual  
25 additional costs to these companies, the fact that they

1 have to issue new bonds were not included in your loss  
2 totals?

3 A. That is correct. We did not include those.

4 Q. So is it fair to state that the totals that you  
5 listed actually understate the losses that these  
6 companies suffered?

7 A. That is correct. And I can tell you how if I  
8 incorporated these what would have to happen and I can  
9 quantify them, the extent of this additional loss.

10 Q. So you haven't quantified it, but there is out  
11 there if work were be done some additional amount that  
12 could be determined?

13 A. We did not look at underwriting fees associated  
14 with reissuance of the debt.

15 Q. Now, I believe Mr. Thompson was asking you also  
16 questions about some assumptions that you made in your  
17 analysis. And there was an assumption on interest  
18 rates going forward. There was some assumptions about  
19 they used two different classes of bonds instead of  
20 looking at the exact bond, exact company and the exact  
21 day. And there were different assumptions that you  
22 made in your analysis, correct?

23 A. Correct.

24 Q. So is it fair to state that your analysis was not  
25 aimed at providing an exact down-to-the-penny dollar

1 amount of the losses but rather a rough estimate of the  
2 losses in this case?

3 A. That is correct. Had we been looking at  
4 individual transactions by issuer of clients when they  
5 come to the market and they issue half a billion  
6 dollars of debt, then of course we would have needed  
7 much sharper pencils.

8 Q. To refine this analysis even further and to look  
9 at the individual transactions beyond making some of  
10 these assumptions that you made, what amount of work  
11 would have needed to have been accomplished?

12 When you say "sharpen your pencils," what else  
13 would you need to have done?

14 A. Well, we could have looked at each of the  
15 corporations instead of just classing them as  
16 investment grade and not investment grade. We could  
17 have said, all right, this issuer had a borrowing cost  
18 which was 20 basis points, one-fifth of a percent  
19 higher or lower than somebody else's and that all could  
20 have been done.

21 Q. How much additional time would that have taken?

22 A. It would have taken quite a bit because you have  
23 to do it by issuer and by date of transaction.

24 Q. So correct me if I'm wrong, to come up with a  
25 simpler way of doing this that would still provide a

1 fairly accurate total for the losses, you made some  
2 working assumptions?

3 A. Exactly. And it was somewhat convenient because  
4 we could obtain the required spread information from  
5 Standard & Poor's; otherwise we would have had to  
6 somehow come up with our own spreads based on -- I'm  
7 not sure what data.

8 Q. And in this particular case, we have a number of  
9 bonds in these different companies that were selling  
10 well below par. Some of them even less than par. So  
11 in that instance there might be \$100,000 in bonds that  
12 the Defendants here were purchasing for let's say  
13 \$40,000 to give an example.

14 If a bond is being sold for \$40,000 on the  
15 market, what does that mean about the prevailing rate  
16 and how much that bond is worth to the company?

17 A. Well, it means that the prevailing rate for that  
18 company would be significantly higher than the stated  
19 interest rate on the bond.

20 Q. So if that bond that's now selling for \$40,000 had  
21 a three percent interest rate, does the fact that it's  
22 selling for \$40,000 mean that the public, the  
23 purchasers of these bonds are saying this three percent  
24 is not enough, therefore it's driving down the price of  
25 the bond?

1       A.   Well, what they're saying is if three percent is  
2       the rate, then the price I'm willing to pay is this.  
3       If you want to get a hundred, you have to raise the  
4       rate.

5               I do want to emphasize, however, that in our  
6       calculations we don't really care how much the investor  
7       paid for the bond. We don't care whether the investor  
8       paid 40 or 20 or 150. It doesn't matter. All we care  
9       is what that bond was worth, what the cost of debt was  
10      to the issuer at the time the bond was put back. That  
11      is the relevant part for us, not the history of how we  
12      got to where we are.

13      Q.   Okay. But in terms of the history, and I  
14      understand it's not the direct number you're using in  
15      your computations, but does the fact that the bond is  
16      selling for substantially under par mean that by  
17      definition that the prevailing rate that the company  
18      has to now borrow money from is going to be higher than  
19      the rate on the bond?

20      A.   You're saying now at the time it's being put?

21      Q.   Yes.

22      A.   Yes. I thought you were referring to the time it  
23      was purchased. So we have two different -- I'm sorry.  
24      You're talking about two different dates.

25      Q.   Right. At the time it's being put.



1       A.    At the time of being put, if the rates are much --  
2       we did not look -- at the time of the put, we did not  
3       look at the market price of the bond. All we did was  
4       we looked at the prevailing borrowing rate for the  
5       issuer and from that information and from the terms of  
6       the bond we imputed a cost to that bond to the issuer.

7       Q.    I may be misunderstanding this, but all I'm trying  
8       to ask is if the value of the bond on the day it's  
9       being put is substantially under par, does that mean  
10      that by definition that the cost to the issuer  
11      borrowing more money is going to be higher than what  
12      they would be paying out in the bond?

13      A.    That is correct. That's a true statement, I  
14      agree, but I do want to emphasize that that's not the  
15      analysis --

16      Q.    No. I understand.

17      A.    -- that we did. Just for the record.

18      Q.    That would mean that by definition there is a loss  
19      whenever a death-put bond is put back if the value at  
20      the time of the put is below par?

21      A.    Yes. One difficulty, if I may point out, with  
22      these bonds as discussed earlier, they don't trade very  
23      much. It's hard to find out what the true value is at  
24      any given date. You may see some transaction that  
25      occurred. There's no indication that the transaction

1       that just took place occurred at a quote, unquote, fair  
2       price.

3               MR. VILKER:   Okay.   Your Honor, I have no  
4       further questions.   Thank you.

5               THE COURT:   Mr. Murphy?

6               MR. MURPHY:   No, your Honor.   Thank you.

7               THE COURT:   Mr. Thompson.

8               MR. THOMPSON:   Nothing, your Honor.   Thank you.

9               THE COURT:   All right.   Doctor, thank you very  
10       much.   You're excused.

11              Mr. Vilker, do you have another witness for  
12       today, or do you want to break for today and recommence  
13       tomorrow morning?

14              MR. VILKER:   I think it would be better to start  
15       with the annuity portion tomorrow, your Honor.

16              THE COURT:   All right.

17              Doctor, thank you very much.   I think we all  
18       understood.

19              Any business that we need to pay attention to in  
20       terms of keeping the wheels on the bus going forward?  
21       Any issues for the Defendants, the Government?

22              MR. VILKER:   Nothing from the Government, your  
23       Honor.

24              THE COURT:   All right.   Then we will be in  
25       recess for today.

(Court concluded at 2:50 p.m.)

C E R T I F I C A T I O N

I, Anne M. Clayton, RPR, do hereby certify  
that the foregoing pages are a true and accurate  
transcription of my stenographic notes in the  
above-entitled case.

/s/ Anne M. Clayton

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Anne M. Clayton, RPR

December 20, 2013

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Date